

STATE OF NEBRASKA CONTRACT AMENDMENT

|                                                                                                         |                                      |
|---------------------------------------------------------------------------------------------------------|--------------------------------------|
| PAGE<br>1 of 2                                                                                          | PRINT DATE<br>7/25/2025              |
| BUSINESS UNIT<br>27202417                                                                               | BUYER<br>OLGA DIONICIO GINCHO (NDOT) |
| VENDOR NUMBER: 2012733                                                                                  |                                      |
| VENDOR ADDRESS:<br><br>TRAFFIC CONTROL CORPORATION<br>10435 ARGONNE WOODS DR<br>WOODRIDGE IL 60517-5104 |                                      |

CONTRACT NUMBER  
16050 CC

THE CONTRACT PERIOD IS:  
**SEPTEMBER 20, 2024 THROUGH SEPTEMBER 19, 2026**

THIS CONTRACT HAS BEEN AMENDED PER THE FOLLOWING INFORMATION:

THIS CONTRACT IS NOT AN EXCLUSIVE CONTRACT TO FURNISH THE PERSONAL PROPERTY AND/OR SERVICES SHOWN BELOW, AND DOES NOT PRECLUDE THE PURCHASE OF SIMILAR PERSONAL PROPERTY AND/OR SERVICES FROM OTHER SOURCES.

THE STATE RESERVES THE RIGHT TO EXTEND THE PERIOD OF THIS CONTRACT BEYOND THE TERMINATION DATE WHEN MUTUALLY AGREEABLE TO THE VENDOR/CONTRACTOR AND THE STATE OF NEBRASKA.

Original/Bid Document 6900 OF

Contract to supply and deliver UPS Systems to the State of Nebraska.

This is the first renewal of the contract as amended.

The contract may be renewed for three (3) additional One (1) year periods when mutually agreeable to the vendor and the State of Nebraska.

Vendor Point of Contact:

Name: Douglas Ripley

Phone: 515-418-4114

E-Mail: dripley@TCC1.com

Agency Point of Contact:

Name: Olga Dionicio Gincho

Phone: 402-479-5770

E-Mail: olga.dioniciogincho@nebraska.gov

E-Mail CC: ndot.procurementsourcing@nebraska.gov

Amendment One (1) as Attached. (bms 1/31/25)

Amendment Two (2) as Attached. (bms 7/25/25)



DocuSigned by:

7/31/2025

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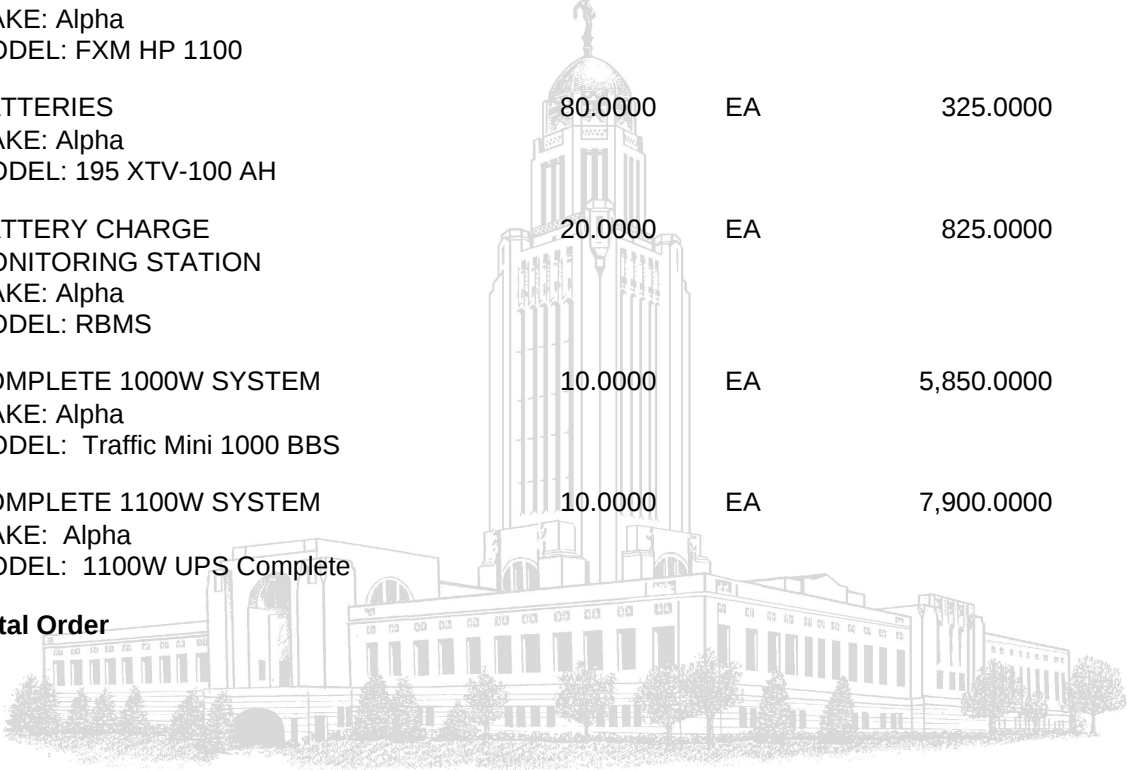
MATERIEL ADMINISTRATOR

STATE OF NEBRASKA CONTRACT AMENDMENT

|                           |                                      |
|---------------------------|--------------------------------------|
| PAGE<br>2 of 2            | PRINT DATE<br>7/25/2025              |
| BUSINESS UNIT<br>27202417 | BUYER<br>OLGA DIONICIO GINCHO (NDOT) |
| VENDOR NUMBER: 2012733    |                                      |

CONTRACT NUMBER  
16050 CC

| Line        | Description                                                          | Quantity | Unit of Measure | Unit Price | Extended Price |
|-------------|----------------------------------------------------------------------|----------|-----------------|------------|----------------|
| 1           | CABINET<br>MAKE: Alpha<br>MODEL: SE48-22-16                          | 6.0000   | EA              | 4,075.0000 | 24,450.00      |
| 2           | UPS MODULE<br>MAKE: Alpha<br>MODEL: FXM HP 1100                      | 20.0000  | EA              | 1,550.0000 | 31,000.00      |
| 3           | BATTERIES<br>MAKE: Alpha<br>MODEL: 195 XTV-100 AH                    | 80.0000  | EA              | 325.0000   | 26,000.00      |
| 4           | BATTERY CHARGE<br>MONITORING STATION<br>MAKE: Alpha<br>MODEL: RBMS   | 20.0000  | EA              | 825.0000   | 16,500.00      |
| 5           | COMPLETE 1000W SYSTEM<br>MAKE: Alpha<br>MODEL: Traffic Mini 1000 BBS | 10.0000  | EA              | 5,850.0000 | 58,500.00      |
| 6           | COMPLETE 1100W SYSTEM<br>MAKE: Alpha<br>MODEL: 1100W UPS Complete    | 10.0000  | EA              | 7,900.0000 | 79,000.00      |
| Total Order |                                                                      |          |                 |            | 235,450.00     |



DS  
  
INITIALS

**AMENDMENT TWO**  
**Contract Number 16050 OC**

**UPS Systems**

**Between**  
**The State of Nebraska**  
**And**  
**Traffic Control Corporation**

**THIS AMENDMENT** is entered into by and between the State of Nebraska ("State/Entity") and Traffic Control Corporation ("Vendor").

**WHEREAS**, the State of Nebraska has a contract with Vendor identified as 16050 OC for use by state agencies and other entities.

**WHEREAS**, the terms of the Contract specifically state that the contract may be amended when mutually agreeable to the Vendor and the State of Nebraska.

**WHEREAS**, this Amendment and any attachments hereto will become part of the Contract. Except as set forth in this Amendment, the Contract is unaffected and shall continue in full force and effect in accordance with its terms. If there is conflict between this Amendment and the Contract or any earlier amendment, the terms of this Amendment will prevail.

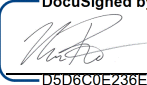
**NOW, THEREFORE**, it is agreed by the parties to amend the contract as follows:

1. The contract number 16050 OC will hereby be updated wherever referenced to 16050 CC
2. The administration of the Contract will hereby be transferred from The State of Nebraska ("State/Entity") to The State of Nebraska Department of Transportation ("State/Entity/NDOT")
3. The Buyer listed on the Contract will be updated to Olga Dionicio Gincho and the Agency Point of Contact Information is hereby added as follows:

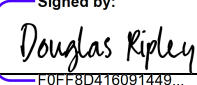
Name: Olga Dionicio Gincho  
Phone: 402-479-5770  
E-Mail: [olga.dioniciogincho@nebraska.gov](mailto:olga.dioniciogincho@nebraska.gov)  
E-Mail CC: [ndot.procurementsourcing@nebraska.gov](mailto:ndot.procurementsourcing@nebraska.gov)

**IN WITNESS WHEREOF**, this amendment is entered into as of the last signature date below (the "Effective Date").

State of Nebraska

DocuSigned by:  
By:   
D5D6C0E236ED496...  
Name: Michelle Potts  
Title: Materiel Administrator  
Date: 7/31/2025

Traffic Control Corporation

Signed by:  
By:   
F0FF8D416091449...  
Name: Douglas Ripley  
Title: Regional Manager  
Date: 7/30/2025

STATE OF NEBRASKA CONTRACT AMENDMENT

State Purchasing Bureau  
1526 K Street, Suite 130  
Lincoln, Nebraska 68508  
  
Telephone: (402) 471-6500  
Fax: (402) 471-2089

|                                                                                                         |                                 |
|---------------------------------------------------------------------------------------------------------|---------------------------------|
| PAGE<br>1 of 2                                                                                          | ORDER DATE<br>01/31/25          |
| BUSINESS UNIT<br>27202417                                                                               | BUYER<br>BRENDA SENSIBAUGH (AS) |
| VENDOR NUMBER: 2012733                                                                                  |                                 |
| VENDOR ADDRESS:<br><br>TRAFFIC CONTROL CORPORATION<br>10435 ARGONNE WOODS DR<br>WOODRIDGE IL 60517-5104 |                                 |

CONTRACT NUMBER  
16050 OC

THE CONTRACT PERIOD IS:  
**SEPTEMBER 20, 2024 THROUGH SEPTEMBER 19, 2026**

THIS CONTRACT HAS BEEN AMENDED PER THE FOLLOWING INFORMATION:

NO ACTION ON THE PART OF THE CONTRACTOR NEEDS TO BE TAKEN AT THIS TIME. ORDERS FOR THE MATERIALS AND/OR SERVICES WILL BE MADE AS NEEDED BY THE VARIOUS AGENCIES OF THE STATE.

THIS CONTRACT IS NOT AN EXCLUSIVE CONTRACT TO FURNISH THE MATERIALS AND/OR SERVICES SHOWN BELOW, AND DOES NOT PRECLUDE THE PURCHASE OF SIMILAR MATERIALS AND/OR SERVICES FROM OTHER SOURCES.

THE STATE RESERVES THE RIGHT TO EXTEND THE PERIOD OF THIS CONTRACT BEYOND THE TERMINATION DATE WHEN MUTUALLY AGREEABLE TO THE CONTRACTOR AND THE STATE OF NEBRASKA.

Original/Bid Document 6900 OF

Contract to supply and deliver UPS Systems to the State of Nebraska.

This is the first renewal of the contract as amended.

The contract may be renewed for three (3) additional one (1) year periods when mutually agreeable to the vendor and the State of Nebraska.

Vendor Point of Contact:

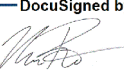
Name: Douglas Ripley  
Phone: 515-418-4114  
E-Mail: dripley@TCC1.com

Amendment One (1) as Attached. (bms 1/31/25)

| Line | Description                                     | Estimated Quantity | Unit of Measure | Unit Price |
|------|-------------------------------------------------|--------------------|-----------------|------------|
| 1    | CABINET<br>MAKE: Alpha<br>MODEL: SE48-22-16     | 6.0000             | EA              | 4,075.0000 |
| 2    | UPS MODULE<br>MAKE: Alpha<br>MODEL: FXM HP 1100 | 20.0000            | EA              | 1,550.0000 |
| 3    | BATTERIES<br>MAKE: Alpha                        | 80.0000            | EA              | 325.0000   |

DS  


DocuSigned by:  
*Brenda Sensibaugh* 3/21/2025  
F8D079AE588F419... BUTER

DocuSigned by:  
 3/21/2025  
D5D6C0E236ED496... ADMINISTRATOR

STATE OF NEBRASKA CONTRACT AMENDMENT

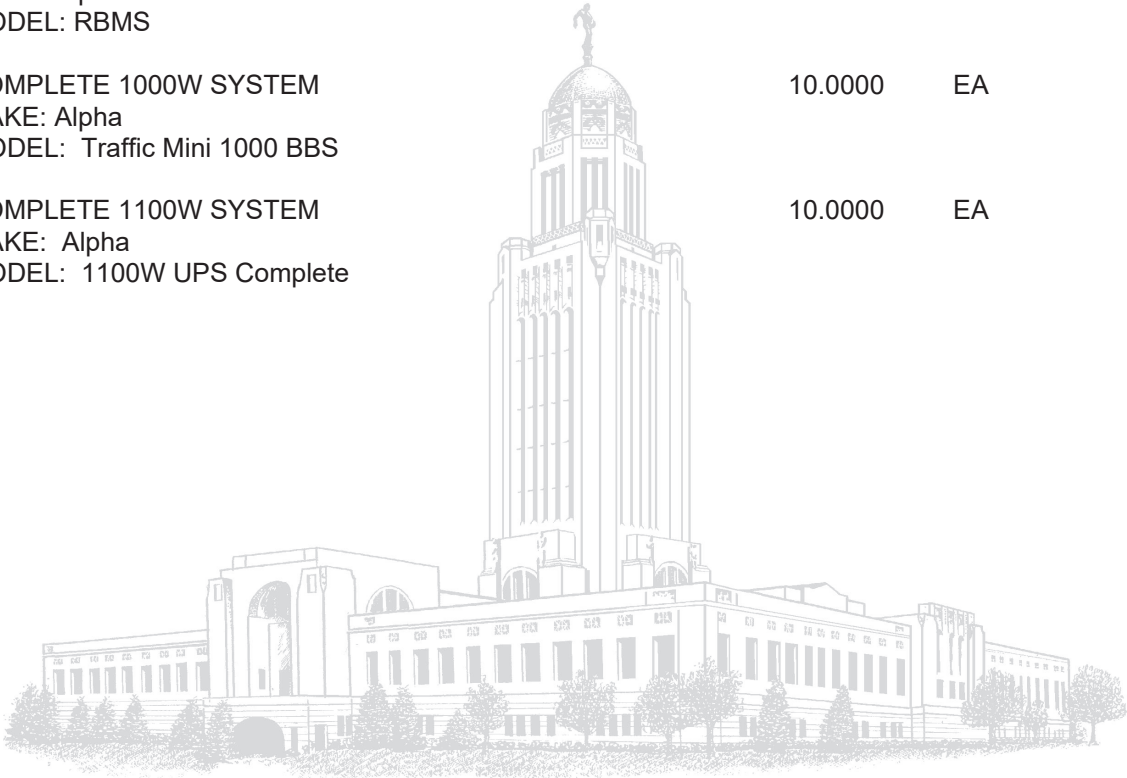
State Purchasing Bureau  
1526 K Street, Suite 130  
Lincoln, Nebraska 68508

Telephone: (402) 471-6500  
Fax: (402) 471-2089

|                           |                                 |
|---------------------------|---------------------------------|
| PAGE<br>2 of 2            | ORDER DATE<br>01/31/25          |
| BUSINESS UNIT<br>27202417 | BUYER<br>BRENDA SENSIBAUGH (AS) |
| VENDOR NUMBER: 2012733    |                                 |

CONTRACT NUMBER  
16050 OC

| Line | Description                                                          | Estimated Quantity | Unit of Measure | Unit Price |
|------|----------------------------------------------------------------------|--------------------|-----------------|------------|
|      | MODEL: 195 XTV-100 AH                                                |                    |                 |            |
| 4    | BATTERY CHARGE MONITORING STATION<br>MAKE: Alpha<br>MODEL: RBMS      | 20.0000            | EA              | 825.0000   |
| 5    | COMPLETE 1000W SYSTEM<br>MAKE: Alpha<br>MODEL: Traffic Mini 1000 BBS | 10.0000            | EA              | 5,850.0000 |
| 6    | COMPLETE 1100W SYSTEM<br>MAKE: Alpha<br>MODEL: 1100W UPS Complete    | 10.0000            | EA              | 7,900.0000 |



DS  
BS

BUYER INITIALS

**Amendment One  
Contract Number 16050 OC**

**UPS Systems**

**between  
The State of Nebraska  
And  
Traffic Control Corporation**

**THIS AMENDMENT** is entered into by and between the State of Nebraska ("State/Entity") and Traffic Control Corporation ("Vendor").

**WHEREAS**, the State of Nebraska has a contract with Vendor identified as 16050 OC for use by state agencies and other entities.

**WHEREAS**, the terms of the contract specifically state that the contract may be amended when mutually agreeable to the Vendor and the State of Nebraska.

**WHEREAS**, This Amendment and any attachments hereto will become part of the Contract. Except as set forth in this Amendment, the Contract is unaffected and shall continue in full force and effect in accordance with its terms. If there is conflict between this Amendment and the Contract or any earlier amendment, the terms of this Amendment will prevail.

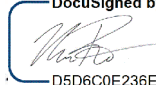
**NOW, THEREFORE**, it is agreed by the parties to amend the contract as follows:

1. The initial term of the above-named contract expires September 19, 2025.
2. The State of Nebraska wishes to execute the first renewal to the contract for an additional one (1) year period.
3. The contract end date, wherever such reference appears in the contract, shall be changed from September 19, 2025, to September 19, 2026.

**IN WITNESS WHEREOF**, the parties have executed this amendment as of the date of execution by both parties below.

State of Nebraska

DocuSigned by:

By: 

D5D6C0E236ED496...

Name: Michelle Potts

Title: Materiel Administrator

Date: 3/21/2025

Vendor: Traffic Control Corporation

By: Jessica Astroth

Name: Jessica Astroth

Title: Regional Manager

Date: 3-18-2025

STATE OF NEBRASKA CONTRACT AWARD

State Purchasing Bureau  
1526 K Street, Suite 130  
Lincoln, Nebraska 68508  
  
Telephone: (402) 471-6500  
Fax: (402) 471-2089

|                                                                                                         |                                 |
|---------------------------------------------------------------------------------------------------------|---------------------------------|
| PAGE<br>1 of 2                                                                                          | ORDER DATE<br>09/05/24          |
| BUSINESS UNIT<br>27202417                                                                               | BUYER<br>BRENDA SENSIBAUGH (AS) |
| VENDOR NUMBER: 2012733                                                                                  |                                 |
| VENDOR ADDRESS:<br><br>TRAFFIC CONTROL CORPORATION<br>10435 ARGONNE WOODS DR<br>WOODRIDGE IL 60517-5104 |                                 |

CONTRACT NUMBER  
16050 OC

AN AWARD HAS BEEN MADE TO THE CONTRACTOR NAMED ABOVE FOR THE FURNISHING OF MATERIALS AND/OR SERVICES AS LISTED BELOW FOR THE PERIOD:

SEPTEMBER 20, 2024 THROUGH SEPTEMBER 19, 2025

NO ACTION ON THE PART OF THE CONTRACTOR NEEDS TO BE TAKEN AT THIS TIME. ORDERS FOR THE MATERIALS AND/OR SERVICES WILL BE MADE AS NEEDED BY THE VARIOUS AGENCIES OF THE STATE.

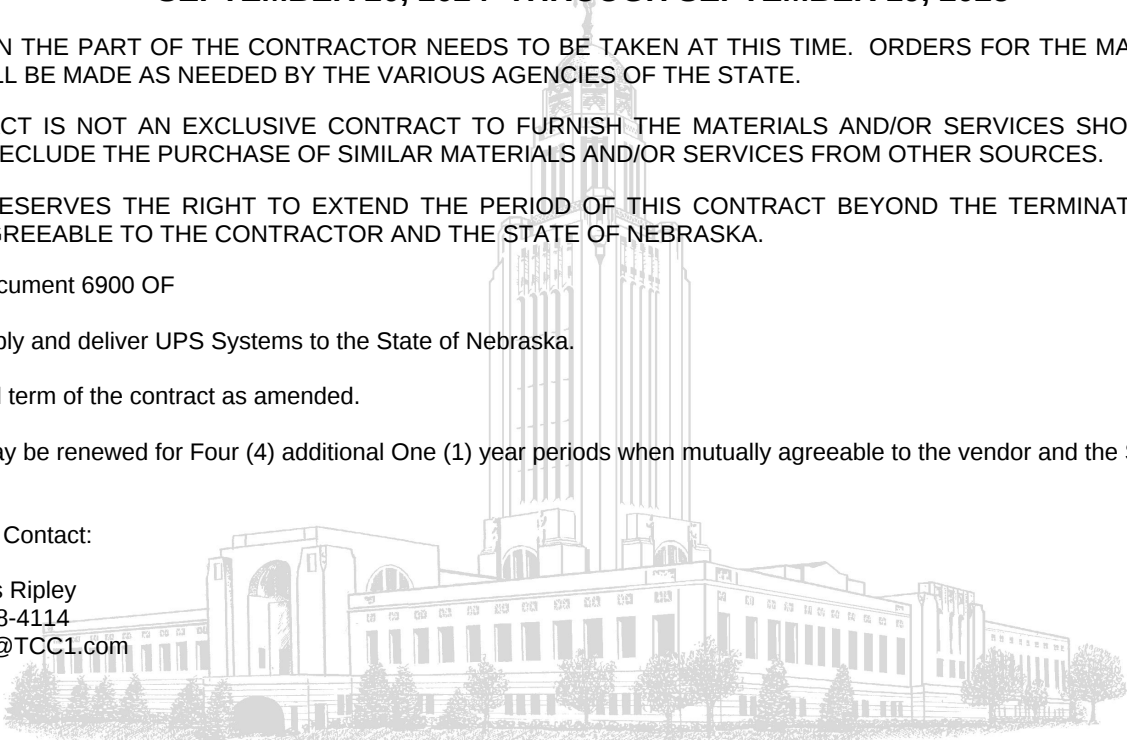
THIS CONTRACT IS NOT AN EXCLUSIVE CONTRACT TO FURNISH THE MATERIALS AND/OR SERVICES SHOWN BELOW, AND DOES NOT PRECLUDE THE PURCHASE OF SIMILAR MATERIALS AND/OR SERVICES FROM OTHER SOURCES.

THE STATE RESERVES THE RIGHT TO EXTEND THE PERIOD OF THIS CONTRACT BEYOND THE TERMINATION DATE WHEN MUTUALLY AGREEABLE TO THE CONTRACTOR AND THE STATE OF NEBRASKA.

Original/Bid Document 6900 OF  
  
Contract to supply and deliver UPS Systems to the State of Nebraska.  
  
This is the initial term of the contract as amended.

The contract may be renewed for Four (4) additional One (1) year periods when mutually agreeable to the vendor and the State of Nebraska.

Vendor Point of Contact:  
  
Name: Douglas Ripley  
Phone: 515-418-4114  
E-Mail: dripley@TCC1.com  
  
(bms 9/5/24)



| Line | Description                                     | Estimated Quantity | Unit of Measure | Unit Price |
|------|-------------------------------------------------|--------------------|-----------------|------------|
| 1    | CABINET<br>MAKE: Alpha<br>MODEL: SE48-22-16     | 6.0000             | EA              | 4,075.0000 |
| 2    | UPS MODULE<br>MAKE: Alpha<br>MODEL: FXM HP 1100 | 20.0000            | EA              | 1,550.0000 |
| 3    | BATTERIES<br>MAKE: Alpha                        | 80.0000            | EA              | 325.0000   |

DS

9/20/2024

DocuSigned by:  
*Brenda Sensibaugh*  
9/23/2024  
F8D079AE588F4115  
BUYER

DocuSigned by:  
  
9/25/2024  
D5D6C0A280EF4406  
MATERIEL ADMINISTRATOR

STATE OF NEBRASKA CONTRACT AWARD

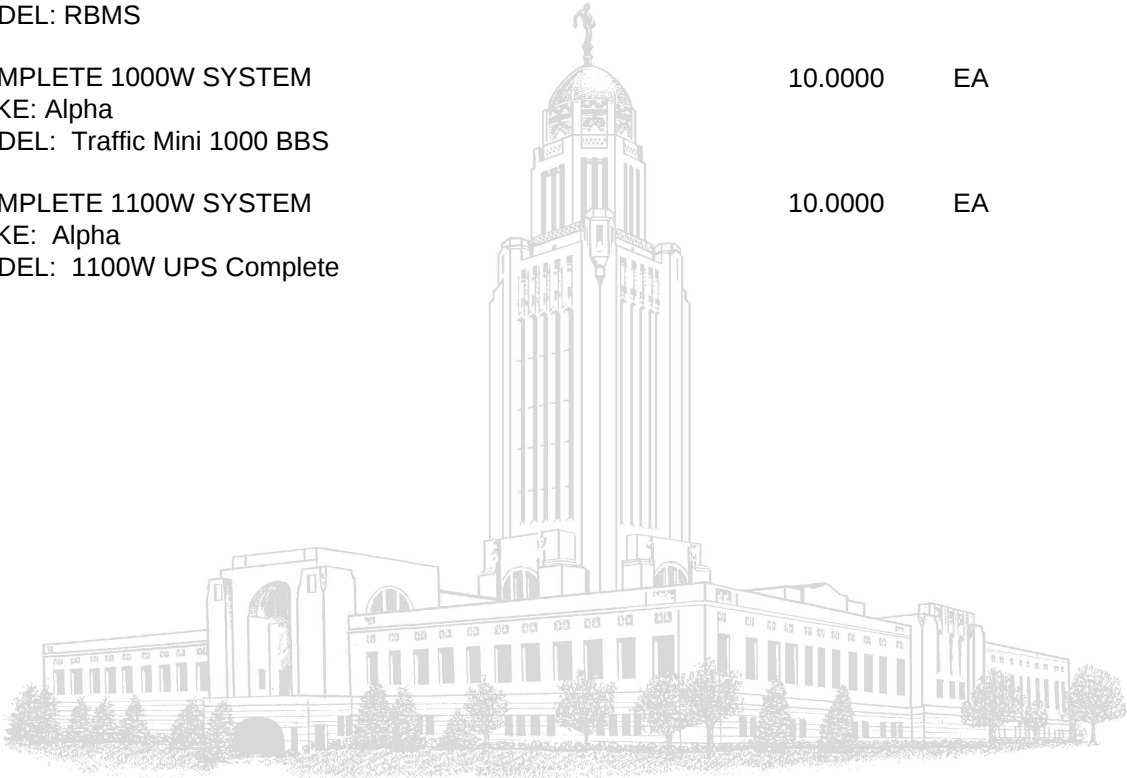
State Purchasing Bureau  
1526 K Street, Suite 130  
Lincoln, Nebraska 68508

Telephone: (402) 471-6500  
Fax: (402) 471-2089

CONTRACT NUMBER  
16050 OC

|                           |                                 |
|---------------------------|---------------------------------|
| PAGE<br>2 of 2            | ORDER DATE<br>09/05/24          |
| BUSINESS UNIT<br>27202417 | BUYER<br>BRENDA SENSIBAUGH (AS) |
| VENDOR NUMBER: 2012733    |                                 |

| Line | Description                                                          | Estimated Quantity | Unit of Measure | Unit Price |
|------|----------------------------------------------------------------------|--------------------|-----------------|------------|
|      | MODEL: 195 XTV-100 AH                                                |                    |                 |            |
| 4    | BATTERY CHARGE<br>MONITORING STATION<br>MAKE: Alpha<br>MODEL: RBMS   | 20.0000            | EA              | 825.0000   |
| 5    | COMPLETE 1000W SYSTEM<br>MAKE: Alpha<br>MODEL: Traffic Mini 1000 BBS | 10.0000            | EA              | 5,850.0000 |
| 6    | COMPLETE 1100W SYSTEM<br>MAKE: Alpha<br>MODEL: 1100W UPS Complete    | 10.0000            | EA              | 7,900.0000 |



DS  
BS

BUYER INITIALS

# State of Nebraska - INVITATION TO BID CONTRACT

|                       |                        |         |        |
|-----------------------|------------------------|---------|--------|
| Date                  | 7/23/24                | Page    | 1 of 2 |
| Solicitation Number   | 6900 OF                |         |        |
| Opening Date and Time | 8/20/24                | 2:00 pm |        |
| Buyer                 | BRENDA SENSIBAUGH (AS) |         |        |

**DESTINATION OF GOODS**

DEPARTMENT OF TRANSPORTATION  
LINCOLN ELECTRONIC SHOP  
5001 SOUTH 14TH  
BUILDING # 00103  
PO BOX 94759  
LINCOLN NE 68509-4759

Per Nebraska's Transparency in Government Procurement Act, DAS is required to collect statistical information regarding the number of contracts awarded to Nebraska contractors. This information is for statistical purposes only and will not be considered for contract award purposes.

\_\_\_\_ NEBRASKA CONTRACTOR AFFIDAVIT: Bidder hereby attests that bidder is a Nebraska Contractor. "Nebraska Contractor" shall mean any bidder who has maintained a bona fide place of business and at least one employee within this state for at least the six (6) months immediately preceding the posting date of this ITB.

\_\_\_\_ I hereby certify that I am a Resident disabled veteran or business located in a designated enterprise zone in accordance with Neb. Rev. Stat. §73-107 and wish to have preference, if applicable, considered in the award of this contract.

Contract to supply and deliver UPS Systems to the State of Nebraska as per the attached specifications for a One (1) year period from date of award. The contract may be renewed for Four (4) additional One (1) year periods when mutually agreeable to the vendor and the State of Nebraska.

(5-31-24 BMS)

**INVITATION**

| Line | Description                                  | Quantity | Unit of Measure | Unit Price | Extended Price |
|------|----------------------------------------------|----------|-----------------|------------|----------------|
| 1    | CABINET<br>MAKE: Alpha<br>MODEL: SE48-22-16* | 6.0000   | EA              | \$4075.00  | \$24,450.00    |
| 2    | UPS MODULE<br>MAKE: Alpha                    | 20.0000  | EA              | \$1550.00  | \$31,000.00    |

**BIDDER MUST COMPLETE THE FOLLOWING**

DISCOUNT PAYMENT TERMS: 0 % 30 DAYS

By signing this Invitation to Bid form, the bidder guarantees compliance with the provisions stated in this Invitation to Bid, agrees to the terms and conditions unless otherwise agreed to and certifies that bidder maintains a drug free work place environment. Vendor will furnish the items requested within 40-50 days after receipt of order. Failure to enter Delivery Date may cause quotation to be REJECTED.

Sign  
Here

(Authorized Signature Mandatory - Form must be signed manually in ink or by DocuSign)

Enter Contact Information Below

VENDOR#

VENDOR: Traffic Control Corporation

Address: 3020 SW Oralabor Rd. Ste 112  
Ankeny, IA 50023

Contact Douglas Ripley

Telephone 515-418-4114

Email dripley@TCC1.com

# State of Nebraska - INVITATION TO BID

## CONTRACT

|                       |                        |         |        |
|-----------------------|------------------------|---------|--------|
| Date                  | 7/23/24                | Page    | 2 of 2 |
| Solicitation Number   | 6900 OF                |         |        |
| Opening Date and Time | 8/20/24                | 2:00 pm |        |
| Buyer                 | BRENDA SENSIBAUGH (AS) |         |        |

**DESTINATION OF GOODS**  
 DEPARTMENT OF TRANSPORTATION  
 LINCOLN ELECTRONIC SHOP  
 5001 SOUTH 14TH  
 BUILDING # 00103  
 PO BOX 94759  
 LINCOLN NE 68509-4759

### INVITATION

| Line | Description                                                                              | Quantity | Unit of Measure | Unit Price        | Extended Price     |
|------|------------------------------------------------------------------------------------------|----------|-----------------|-------------------|--------------------|
|      | MODEL: <u>FXM HP 1100</u>                                                                |          |                 |                   |                    |
| 3    | <b>BATTERIES</b><br>MAKE: <u>Alpha</u><br>MODEL: <u>195 XTV - 100 AH</u>                 | 80.0000  | EA              | <u>\$325.00</u>   | <u>\$26,000.00</u> |
| 4    | <b>BATTERY CHARGE</b><br>MONITORING STATION<br>MAKE: <u>Alpha</u><br>MODEL: <u>RBMS</u>  | 20.0000  | EA              | <u>\$825.00</u>   | <u>\$16,500.00</u> |
| 5    | <b>COMPLETE 1000W SYSTEM</b><br>MAKE: <u>Alpha</u><br>MODEL: <u>Traffic Mini1000 BBS</u> | 10.0000  | EA              | <u>\$5850.00</u>  | <u>\$58,500.00</u> |
| 6    | <b>COMPLETE 1100W SYSTEM</b><br>MAKE: <u>Alpha</u><br>MODEL: <u>1100W UPS Complete*</u>  | 10.0000  | EA              | <u>\$7,900.00</u> | <u>\$79,000.00</u> |

\*SE 48-22-16 cabinet includes fixed battery shelves, generator plug, UATS and UGTS, battery cables, confirmation LED.

\*\* Mini 1000 BBS includes 56 Ah batteries and RBMS and UATS, Generator transfer not included

\*\*\* Includes SE 48-22-16 cabinet with battery trays, FXM HP 1100, 195 XTV Batteries (4), UATS/UGTS Rack mounted, battery heater mats, confirmation LED, cables and connectors for batteries, mounting components for side mount, and RBMS monitoring system.

## State of Nebraska (State Purchasing Bureau)

### INVITATION TO BID FOR COMMODITIES CONTRACT

| INVITATION TO BID NUMBER                | RELEASE DATE        |
|-----------------------------------------|---------------------|
| ITB 6900 OF                             | July 23, 2024       |
| OPENING DATE AND TIME                   | PROCUREMENT CONTACT |
| August 20, 2024, 2:00 p.m. Central Time | Brenda Sensibaugh   |

### PLEASE READ CAREFULLY SCOPE

The State of Nebraska (State), Department of Administrative Services (DAS), Materiel Division, State Purchasing Bureau (SPB), is issuing this solicitation for a UPS systems contract, ITB Number 6900 OF for the purpose of selecting a qualified Contractor to provide UPS systems. A more detailed description can be found in Section V. The resulting contract may not be an exclusive contract as the State reserves the right to contract for the same or similar goods from other sources now or in the future.

In the event that a contract with the awarded bidder(s) is cancelled or in the event that the State needs additional contractors to supply the solicited commodities, this ITB may be used to procure the solicited goods up to eighteen (18) months from the date the Intent to Award is posted, provided that 1) the solicited goods will be provided by a bidder (or a successive owner) who submitted a bid pursuant to this ITB, 2) the bidder's bid was evaluated, and 3) the bidder will honor the bidder's original bid, including the proposed cost, allowing for any price increases that would have otherwise been allowed if the bidder would have received the initial award.

INFORMATION PERTINENT TO THIS INVITATION TO BID CAN BE FOUND ON THE INTERNET AT:  
<https://das.nebraska.gov/materiel/bidopps.html>

**IMPORTANT NOTICE:** Pursuant to Neb. Rev. Stat. § 84-602.04, State contracts in effect as of January 1, 2014, and contracts entered into thereafter must be posted to a public website. The resulting contract, the solicitation and the successful Contractor's bid or response will be posted to a public website managed by DAS, which can be found at: <https://statecontracts.nebraska.gov> and [https://www.nebraska.gov/das/materiel/purchasing/contract\\_search/index.php](https://www.nebraska.gov/das/materiel/purchasing/contract_search/index.php).

In addition and in furtherance of the State's public records statute (Neb. Rev. Stat. § 84-712 et seq.) all bids or responses received regarding this solicitation will be posted to the SPB website.

These postings will include the entire bid or response. Bidders must request that proprietary information be excluded from the posting. The bidder must identify the proprietary information, mark the proprietary information according to state law, and submit the proprietary information in a separate file named conspicuously as "PROPRIETARY INFORMATION." The bidder should submit a detailed written document showing that the release of the proprietary information would give a business advantage to named business competitor(s) and explain how the named business competitor(s) will gain an actual business advantage by disclosure of information. The mere assertion that information is proprietary or that a speculative business advantage might be gained is not sufficient. (See Attorney General Opinion No. 92068, April 27, 1992). **THE BIDDER MAY NOT ASSERT THAT THE ENTIRE BID IS PROPRIETARY. COST WILL NOT BE CONSIDERED PROPRIETARY AND ARE A PUBLIC RECORD IN THE STATE OF NEBRASKA.** The State will determine, in its sole discretion, if the disclosure of the information designated by the Bidder as proprietary would 1) give advantage to business competitors and 2) serve no public purpose. The Bidder will be notified of the State's decision. Absent a determination by the State that the information may be withheld pursuant to Neb. Rev. Stat. § 84-712.05, the State will consider all information a public record subject to disclosure.

If the State determines it is required to release withheld proprietary information, the bidder will be informed. It will be the bidder's responsibility to defend the bidder's asserted interest in non-disclosure.

To facilitate public postings, with the exception of proprietary information, the State of Nebraska reserves a royalty-free, nonexclusive, and irrevocable right to copy, reproduce, publish, post to a website, or otherwise use any contract, bid, or response to this Invitation to Bid for any purpose, and to authorize others to use the documents. Any individual or entity awarded a contract, or who submits a bid or response to this Invitation to Bid, specifically waives any copyright or other protection the contract, bid, or response to the Invitation to Bid may have; and, acknowledges that they have the ability and authority to enter into such waiver. This reservation and waiver is a prerequisite for submitting a bid or response to this Invitation to Bid, and award of a contract. Failure to agree to the reservation and waiver will result in the bid or response to the Invitation to Bid being found non-responsive and rejected.

Any entity awarded a contract or submitting a bid or response to the Invitation to Bid agrees not to sue, file a claim, or make a demand of any kind, and will indemnify and hold harmless the State and its employees, volunteers, agents, and its elected and appointed officials from and against any and all claims, liens, demands, damages, liability, actions, causes of action, losses, judgments, costs, and expenses of every nature, including investigation costs and expenses, settlement costs, and attorney fees and expenses, sustained or asserted against the State, arising out of, resulting from, or attributable to the posting of the contract or the bids and responses to the Invitation to Bid, awards, and other documents.

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## GLOSSARY OF TERMS

**Acceptance Test Procedure:** Benchmarks and other performance criteria, developed by the State or other sources of testing standards, for measuring the effectiveness of products or goods and the means used for testing such performance

**Addendum:** Something to be added or deleted to an existing document; a supplement

**After Receipt of Order (ARO):** After Receipt of Order

**Agency:** Using agencies shall mean and include all officers of the state, departments, bureaus, boards, commissions, councils, and institutions receiving legislative appropriations

**Agent/Representative:** A person authorized to act on behalf of another

**Amend:** To alter or change by adding, subtracting, or substituting

**Amendment:** A written correction or alteration to a document

**Appropriation:** Legislative authorization to expend public funds for a specific purpose; money set apart for a specific use

**Automated Clearing House (ACH):** Electronic network for financial transactions in the United States

**Award:** All purchases, leases, or contracts which are based on competitive bids will be awarded according to the provisions in the solicitation

**Best and Final Offer (BAFO):** In a competitive bid, the final offer submitted which contains contractor's most favorable terms for price

**Bid:** An offer, bid, or quote submitted by a contractor in a response to a written solicitation

**Bid Bond:** An insurance agreement, accompanied by a monetary commitment, by which a third party (the surety) accepts liability and guarantees that the contractor will not withdraw the bid

**Bidder:** A contractor who submits an offer bid in response to a written solicitation

**Bill of Lading:** a detailed list of a shipment of goods in the form of a receipt given by the carrier to the person consigning the goods.

**Breach:** Violation of a contractual obligation by failing to perform or repudiation of one's own promise

**Business:** Any corporation, partnership, individual, sole proprietorship, joint-stock company, joint venture, or any other private legal entity

**Business Day:** Any weekday, except State-recognized holidays

**Calendar Day:** Every day shown on the calendar including Saturdays, Sundays, and State/Federal holidays

**Cancellation:** To call off or revoke a bid, purchase order or contract without expectation of conducting or performing at a later time

**Catalog/Non-Core:** A printed or electronic list of products a contractor may provide at a discounted rate or discount off list price to the State. Initial contract award(s) is not based on Catalog/Non-Core items

**Central Processing Unit (CPU):** Any computer or computer system that is used by the State to store, process, or retrieve data or perform other functions using Operating Systems and applications software

**Change Order:** Document that provides amendments to an executed purchase order

**Collusion:** An agreement or cooperation between two or more persons or entities to accomplish a fraudulent, deceitful, or unlawful purpose

**Commodities:** Any equipment, material, supply or goods; anything movable or tangible that is provided or sold

**Commodities Description:** Detailed descriptions of the items to be purchased; may include information necessary to obtain the desired quality, type, color, size, shape, or special characteristics necessary to perform the work intended to produce the desired results

**Competition:** The effort or action of two or more commercial interests to obtain the same business from third parties

**Confidential Information:** Unless otherwise defined below, "Confidential Information" shall also mean proprietary trade secrets, academic and scientific research work which is in progress and unpublished, and other information which if released would give advantage to business competitors and serve no public purpose (see Neb. Rev. Stat. § 84-712.05(3)). In accordance with Nebraska Attorney

General Opinions 92068 and 97033, proof that information is proprietary requires identification of specific, named competitor(s) who would be advantaged by release of the information and the specific advantage the competitor(s) would receive.

**Contract:** An agreement between two or more parties creating obligations that are enforceable or otherwise recognizable at law; the writing that sets forth such an agreement

**Contract Administration:** The management of the contract which includes and is not limited to contract signing, contract amendments and any necessary legal actions

**Contract Management:** The management of day to day activities at the agency which includes and is not limited to ensuring deliverables are received, specifications are met, handling meetings and making payments to the Contractor

**Contract Period:** The duration of the contract

**Contractor:** An individual or entity lawfully conducting business in the State, who seeks or agrees to provide goods or services under the terms of a written contract

**Cooperative Purchasing:** The combining of requirements of two or more political entities to obtain advantages of volume purchases, reduction in administrative expenses or other public benefits

**Copyright:** A property right in an original work of authorship fixed in any tangible medium of expression, giving the holder the exclusive right to reproduce, adapt and distribute the work

**Core List:** Items specifically listed on the solicitation upon which a bid is evaluated for award.

**Critical Program Error:** Any Program Error, whether or not known to the State, which prohibits or significantly impairs use of the Licensed Software as set forth in the documentation and intended in the contract

**Customer Service:** The process of ensuring customer satisfaction by providing assistance and advice on those products or goods provided by a Contractor

**Default:** The omission or failure to perform a contractual duty

**Deviation:** Any proposed change(s) or alteration(s) to either the terms and conditions or deliverables within the scope of the written solicitation or contract

**Evaluation:** The process of examining an offer after opening to determine the contractor's responsibility, responsiveness to requirements, and to ascertain other characteristics of the offer that relate to determination of the successful award

**Evaluation Committee:** Committee(s) appointed by the requesting agency that advises and assists the procuring office in the evaluation of bids (offers made in response to written solicitations)

**Extension:** Continuance of a contract for a specified duration upon the agreement of the parties beyond the original Contract Period; not to be confused with "Renewal Period"

**Free on Board (F.O.B.) Destination:** The delivery charges are included in the quoted price and prepaid by the contractor. Contractor is responsible for all claims associated with damages during delivery of product.

**Free on Board (F.O.B.) Point of Origin:** The delivery charges are not included in the quoted price and are the responsibility of the agency. Agency is responsible for all claims associated with damages during delivery of product

**Foreign Corporation:** A foreign corporation that was organized and chartered under the laws of another state, government, or country

**Installation Date:** The date when the procedures described in "Installation by Contractor" and "Installation by State" as found in the solicitation or contract are completed

**Interested Party:** A person acting in their personal capacity or an entity entering into a contract or other agreement creating a legal interest therein

**Invalid Bid:** A bid that does not meet the requirements of the solicitation or cannot be evaluated against the other bids

**Invitation to Bid (ITB):** A written solicitation used for obtaining competitive offers for Services or Goods

**Late Bid:** An offer received after the Opening Date and Time

**Licensed Software Documentation:** The user manuals and any other materials in any form or medium customarily provided by the Contractor to the users of the Licensed Software which will provide the State with sufficient information to operate, diagnose, and maintain the Licensed Software properly, safely, and efficiently

**Mandatory/Must:** Required, compulsory, or obligatory

**May:** Discretionary, permitted; used to express possibility

**Module (see System):** A collection of routines and data structures that perform a specific function of software

**Must:** See Mandatory/Must and Shall/Will/Must

**National Institute for Governmental Purchasing (NIGP):** National Institute of Governmental Purchasing – Source used for assignment of universal commodity codes to goods and services

**Non-core:** See Catalog

**Nonnegotiable:** These clauses are controlled by state law and are not subject to negotiation

**Open Market Purchase:** Authorization may be given to an agency to purchase items above direct purchase authority due to the unique nature, price, quantity, location of the using agency, or time limitations by the AS Materiel Division, State Purchasing Bureau

**Opening Date and Time:** Specified date and time for the public opening of received, labeled, and sealed formal bids

**Operating System:** The control program in a computer that provides the interface to the computer hardware and peripheral devices, and the usage and allocation of memory resources, processor resources, input/output resources, and security resources

**Outsourcing:** The contracting out of a business process that an organization may have previously performed internally or for which an organization has a new need to an independent organization from which the process is purchased back

**Payroll & Financial Center (PFC):** Electronic procurement system of record

**Performance Bond:** An insurance agreement accompanied by a monetary commitment by which a third party (the surety) accepts liability and guarantees that the Contractor fulfills any and all obligations under the contract

**Platform:** A specific hardware and Operating System combination that is different from other hardware and Operating System combinations to the extent that a different version of the Licensed Software product is required to execute properly in the environment established by such hardware and Operating System combination

**Point of Contact (POC):** The person designated to receive communications and to communicate

**Pre-Bid Conference:** A meeting scheduled for the purpose of clarifying a written solicitation and related expectations

**Product:** Something that is distributed commercially for use or consumption and that is usually (1) tangible personal property, (2) the result of fabrication or processing, and (3) an item that has passed through a chain of commercial distribution before ultimate use or consumption

**Program Error:** Code in Licensed Software that produces unintended results or actions or that produces results or actions other than those described in the specifications. A program error includes, without limitation, any Critical Program Error.

**Program Set:** The group of programs and products, including the Licensed Software specified in the solicitation, plus any additional programs and products licensed by the State under the contract for use by the State

**Project:** The total scheme, program, or method worked out for the accomplishment of an objective, including all documentation, commodities, and goods to be provided under the contract

**Proprietary Information:** Trade secrets, academic and scientific research work that is in progress and unpublished or other information that if released would give advantage to business competitors and service no public purpose. See Neb. Rev. Stat. § 84-712.05(3). In accordance with Attorney General Opinions 92068 and 97033, proof that information is proprietary requires identification of specific named competitor(s) advantaged by release of the information and the demonstrated advantage the named competitor(s) would gain by the release of information.

**Protest/Grievance:** A complaint about a governmental action or decision related to the solicitation or resultant contract, brought by a contractor who has timely submitted a bid response in connection with the award in question to AS Materiel Division or another designated agency with the intention of achieving a remedial result

**Public Bid Opening:** The process of opening correctly submitted offers at the time and place specified in the written solicitation and in the presence of anyone who wished to attend

**Quote:** See Bid

**Recommended Hardware Configuration:** The data processing hardware (including all terminals, auxiliary storage, communication, and other peripheral devices) to the extent used by the State as recommended by the Contractor

**Release Date:** The date of public release of the written solicitation to seek offers

**Renewal Period:** Optional contract periods subsequent to the original Contract Period for a specified duration with previously agreed to terms and conditions; not to be confused with “Extension”

**Responsible Contractor:** A Contractor who has the capability in all respects to perform fully and lawfully all requirements with integrity and reliability to assure good faith performance

**Responsive Contractor:** A Contractor who has submitted a bid which conforms to all requirements of the solicitation document

**Shall:** See Must

**Should:** Expected; suggested, but not necessarily mandatory

**Software License:** Legal instrument with or without printed material that governs the use or redistribution of licensed software

**Sole Source – Commodity:** When an item is available from only one source due to the unique nature of the requirement, its contractor, or market conditions

**Sole Source – Service:** A service of such a unique nature that the contractor selected is clearly and justifiably the only practical source to provide the service. Determination that the contractor selected is justifiably the sole source is based on either the uniqueness of the service or sole availability at the location required

**Specifications:** The detailed statement, especially of the measurements, quality, materials, and functional characteristics, or other items to be provided under a contract

**Subcontractor:** Individual or entity with whom the contractor enters a contract to perform a portion of the work awarded to the contractor

**System (see Module):** Any collection or aggregation of two (2) or more Modules that is designed to function, or is represented by the Contractor as functioning or being capable of functioning, as an entity

**Termination:** Occurs when the contract expires or either party, pursuant to a power created by agreement or law, puts an end to the contract prior to the stated expiration date; all obligations that are still executory on both sides are discharged but any right based on prior breach or performance survives

**Third-Party:** Any person or entity, including but not limited to fiduciaries, shareholders, owners, officers, managers, employees, legally disinterested persons, and subcontractors or agents, and their employees. It shall not include any entity or person who is an interested party to the contract or agreement

**Trade Secret:** Information, including but not limited to, a drawing, formula, pattern, compilation, program, device, method, technique, code, or process that (a) derives independent economic value, actual or potential, from not being known to, and not being ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use; and (b) is the subject of efforts that are reasonable under the circumstances to maintain its secrecy (see Neb. Rev. Stat. § 87-502(4))

**Trademark:** A word, phrase, logo, or other graphic symbol used by a manufacturer or contractor to distinguish its product from those of others, registered with the U.S. Patent and Trademark Office

**Upgrade:** Any change that improves or alters the basic function of a product of service

**Vendor:** Inclusive term for any Bidder or Contractor.

**Will:** See Mandatory/Must/Shall

**Work Day:** See Business Day

## ACRONYM LIST

**ARO** – After Receipt of Order

**ACH** – Automated Clearing House

**BAFO** – Best and Final Offer

**BOL** – Bill of Landing

**COI** – Certificate of Insurance

**CPU** – Central Processing Unit

**DAS** – Department of Administrative Services

**F.O.B.** – Free on Board

**ICT** – Information and Communication Technology

**ITB** – Invitation to Bid

**NDOT** – Nebraska Department of Transportation

**NIGP** – National Institute for Governmental Purchasing

**PA** – Participating Addendum

**SPB** – State Purchasing Bureau

## I. PROCUREMENT PROCEDURE

### A. GENERAL INFORMATION

This Invitation to Bid is designed to solicit bids from qualified Contractors who will be responsible for providing **UPS Systems** at a competitive and reasonable cost. Terms and Conditions, Project Description and Scope of Work, Bid instructions, and Cost Bid Requirements may be found in Sections II through VI.

Bids shall conform to all instructions, conditions, and requirements included in the solicitation. Prospective Contractors are expected to carefully examine all documents, schedules, and requirements in this solicitation, and respond to each requirement in the format prescribed. Bids may be found non-responsive if they do not conform to the solicitation.

### B. PROCURING OFFICE AND COMMUNICATION WITH STATE STAFF AND EVALUATORS

Procurement responsibilities related to this solicitation reside with SPB. The point of contact (POC) for the procurement is as follows:

ITB Number: 6900 OF  
Name: Brenda Sensibaugh, Procurement Contract Officer  
Agency: State Purchasing Bureau  
Address: 1526 K Street, Suite 130  
Lincoln, NE 68508  
Telephone: 402-471-6500  
E-Mail: [as.materielpurchasing@nebraska.gov](mailto:as.materielpurchasing@nebraska.gov)

From the date the solicitation is issued until the Intent to Award is issued, communication from the Contractor is limited to the POC listed above. After the Intent to Award is issued, the Contractor may communicate with individuals the State has designated as responsible for negotiating the contract on behalf of the State. No member of the State Government, employee of the State, or member of the Evaluation Committee is empowered to make binding statements regarding this solicitation. The POC will issue any answers, clarifications or amendments regarding this solicitation in writing. Only the SPB or awarding agency can award a contract. Contractors shall not have any communication with, or attempt to communicate or influence any evaluator involved in this solicitation.

The following exceptions to these restrictions are permitted:

1. Contact made pursuant to pre-existing contracts or obligations;
2. Contact required by the schedule of events or an event scheduled later by POC; and
3. Contact required for negotiation and execution of the final contract.

*The State reserves the right to reject a contractor's bid, withdraw an Intent to Award, or terminate a contract if the State determines there has been a violation of these procurement procedures.*

**C. SCHEDULE OF EVENTS**

The State expects to adhere to the procurement schedule shown below, but all dates are approximate and subject to change.

| ACTIVITY |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DATE/TIME                                           |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1.       | Release solicitation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | July 23, 2024                                       |
| 2.       | <p>Last day to submit written questions</p> <p>Upload electronic Questions for 6900 OF via ShareFile to:<br/> <a href="https://nebraska.sharefile.com/r-raa84965834054c46a3f593bf91ce40a6">https://nebraska.sharefile.com/r-raa84965834054c46a3f593bf91ce40a6</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | August 2, 2024                                      |
| 3.       | <p>State responds to written questions through a solicitation "Addendum" and/or "Amendment" to be posted to the Internet at:<br/> <a href="https://das.nebraska.gov/materiel/bidopps.html">https://das.nebraska.gov/materiel/bidopps.html</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | August 9, 2024                                      |
| 4.       | <p>Proposal Opening – Online Via Webex:</p> <p>ShareFile Electronic Bid Submission Link:<br/> <a href="https://nebraska.sharefile.com/r-r2248c6ffcf0f4334bf17761f1ee3905a">https://nebraska.sharefile.com/r-r2248c6ffcf0f4334bf17761f1ee3905a</a></p> <p><b>IT IS THE BIDDER'S RESPONSIBILITY TO UPLOAD ELECTRONIC FILES BY OPENING DATE AND TIME. EXCEPTIONS WILL NOT BE MADE FOR TECHNOLOGY ISSUES.</b></p> <p>Webinar topic:<br/>6900 OF UPS Systems</p> <p>Date and time:<br/>Wednesday, July 17, 2024 2:00 PM   (UTC-05:00) Central Time (US &amp; Canada)</p> <p>Join link:<br/> <a href="https://sonvideo.webex.com/sonvideo/j.php?MTID=me7467ba39b1719d269a02f9a80c0c98f">https://sonvideo.webex.com/sonvideo/j.php?MTID=me7467ba39b1719d269a02f9a80c0c98f</a></p> <p>Webinar number:<br/>2493 912 5061</p> <p>Webinar password:<br/>5asYEuJGB65 (52793854 when dialing from a phone or video system)</p> <p>Join by phone<br/>+1-408-418-9388 United States Toll</p> <p>Access code: 249 391 25061 Electronic Bid Opening via Webex Meeting</p> | <p>August 20, 2024<br/>2:00 PM<br/>Central Time</p> |
| 5.       | <p>Post "Notification of Intent to Award" to Internet at:<br/> <a href="http://das.nebraska.gov/materiel/purchasing.html">http://das.nebraska.gov/materiel/purchasing.html</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TBD                                                 |

**D. WRITTEN QUESTIONS AND ANSWERS**

Questions regarding the meaning or interpretation of any solicitation provision must be submitted in writing to SPB and clearly marked "ITB Number 6900 OF; **UPS Systems**. Questions". POC is not obligated to respond to questions that are received late per the Schedule of Events.

Contractors should present, as questions, any assumptions upon which the Contractor's bid is or might be developed. Bids will be evaluated without consideration of any known or unknown assumptions of a Contractor. The contract will not incorporate any known or unknown assumptions of a Contractor.

Questions should be uploaded using the ShareFile link provided in the ITB Schedule of Events, Section I.C. It is recommended that Contractors submit questions using the following format.

| Solicitation Section Reference | Solicitation Page Number | Question |
|--------------------------------|--------------------------|----------|
|                                |                          |          |

Written answers will be posted at <https://das.nebraska.gov/materiel/bidopps.html> per the Schedule of Events.

**E. SECRETARY OF STATE/TAX COMMISSIONER REGISTRATION REQUIREMENTS (Nonnegotiable)**

All Contractors must be authorized to transact business in the State and comply with all Nebraska Secretary of State Registration requirements. The Contractor who is the recipient of an Intent to Award will be required to certify that it has complied and produce a true and correct copy of its current (within ninety (90) calendar days of the intent to award) Certificate or Letter of Good Standing, or in the case of a sole proprietorship, provide written documentation of sole proprietorship and the United States Citizenship Attestation Form, available on the DAS website at: <http://das.nebraska.gov/materiel/purchasing.html>. This must be accomplished prior to execution of the contract.

**F. ETHICS IN PUBLIC CONTRACTING**

The State reserves the right to reject bids, withdraw an intent to award or award, or terminate a contract if a Contractor commits or has committed ethical violations, which include, but are not limited to:

1. Offering or giving, directly or indirectly, a bribe, fee, commission, compensation, gift, gratuity, or anything of value to any person or entity in an attempt to influence the bidding process;
2. Using the services of lobbyists, attorneys, political activists, or consultants to influence or subvert the bidding process;
3. Being considered for, presently being, or becoming debarred, suspended, ineligible, or excluded from contracting with any state or federal entity;
4. Submitting a bid on behalf of another party or entity;
5. Colluding with any person or entity to influence the bidding process, submit sham bids, preclude bidding, fix pricing or costs, create an unfair advantage, subvert the bid, or prejudice the State.

The Contractor shall include this clause in any subcontract entered into for the exclusive purpose of performing this contract.

Contractor shall report any violations of this clause throughout the bidding process and throughout the term of this contract for both the successful Contractor and its subcontractors.

**G. DEVIATIONS FROM THE INVITATION TO BID**

The requirements contained in the solicitation (Sections II through VI) become a part of the terms and conditions of the contract resulting from this solicitation. Any deviations from the solicitation in Sections II through VI must be clearly defined by the bidder in its bid and, if accepted by the State, will become part of the contract. Any specifically defined deviations must not be in conflict with the basic nature of the solicitation, solicitation requirements, or applicable state or federal laws or statutes. The State discourages deviations and reserves the right to reject proposed deviations.

**H. SUBMISSION OF BIDS**

The State is only accepting electronic responses submitted in accordance with this ITB. The State will not accept bids by mail, email, voice, or telephone, unless otherwise explicitly stated in writing by the State. Bids must be submitted via ShareFile by the date and time of the bid opening per the Schedule of Events. No late bids will be accepted.

Pages may be consecutively numbered for the entire bid or may be numbered consecutively within sections. Figures and tables should be numbered and referenced in the text by that number. They should be placed as close as possible to the referencing text.

It is the responsibility of the bidder to check the website for all information relevant to this ITB to include addenda and/or amendments issued prior to the opening date. The website can be found here:

<https://das.nebraska.gov/materiel/bidopps.html>. If the bidder's bid is presented in such a fashion that makes evaluation difficult or overly time consuming the State reserves the right to reject the bid as non-conforming.

**Note to bidders:** Not all browsers are compatible with ShareFile. Currently Chrome, Internet Explorer and Firefox are compatible. After the bidder clicks the bid submission link, the bidder will be prompted to enter contact information including an e-mail address. By entering an e-mail address, the bidder should receive a confirmation email confirming the successful upload directly from ShareFile.

The ShareFile link for uploading ITB response(s) is provided in the ITB Schedule of Events, Section I.C.

**\*\*\*UNLESS OTHERWISE NOTED, DO NOT SUBMIT DOCUMENTS  
THAT CAN ONLY BE ACCESSED WITH A PASSWORD\*\*\***

1. The Bid and Proprietary information should be uploaded as separate and distinct files.
  - a. If duplicated bids are submitted, the State will retain only the most recently submitted response.
  - b. If it is the bidder's intent to submit multiple bids, the bidder must clearly identify the separate submissions.
  - c. It is the bidder's responsibility to allow time for electronic uploading. All file uploads must be completed by the Opening date and time per the Schedule of Events. No late bids will be accepted.
2. **ELECTRONIC BID FILE NAMES** The bidder should clearly identify the uploaded ITB bid files. To assist in identification the bidder should use the following naming convention:
  - a. 6900 OF, UPS Systems NAME OF BIDDER Bid
  - b. If multiple files are submitted for one bid, add number of files to file names, e.g.,
    - i. 6900 OF, UPS Systems NAME OF BIDDER Bid File 1 of 2;
    - ii. 6900 OF, UPS Systems NAME OF BIDDER Bid File 2 of 2, etc.

The "Invitation to Bid for Commodities Contract" form must be signed manually in ink or by DocuSign and returned by the bid opening date and time along with the bidder's bid and any other requirements as stated in the Invitation to Bid document in order for the bidder's Invitation to Bid response to be evaluated.

By signing the "Invitation to Bid for Commodities Contract" form, the bidder guarantees compliance with the provisions stated in this Invitation to Bid.

**I. BID PREPARATION COSTS**

The State shall not incur any liability for any costs incurred by Contractors in replying to this solicitation, including any activity related to bidding on this solicitation.

**J. FAILURE TO COMPLY WITH INVITATION TO BID**

Violation of the terms and conditions contained in this solicitation or any resultant contract, at any time before or after the award, shall be grounds for action by the State which may include, but is not limited to, the following:

1. Rejection of a Contractor's bid;
2. Withdrawal of the Intent to Award;
3. Withdrawal of the Award;
4. Negative documentation regarding vendor performance;
5. Termination of the resulting contract;
6. Legal action; or,
7. Suspension of the Contractor from further bidding with the State for the period of time relative to the seriousness of the violation, such period to be within the sole discretion of the State.

**K. BID CORRECTIONS**

A contractor may correct a mistake in a bid prior to the time of opening by giving written notice to the State of intent to withdraw the bid for modification or to withdraw the bid completely. Changing a bid after opening may be permitted if the change is made to correct a minor error that does not affect price, quantity, quality, delivery, or contractual conditions. In case of a mathematical error in extension of price, unit price shall govern.

**L. LATE BIDS**

Bids received after the time and date of the bid opening will be considered late bids. Late bids will be returned unopened, if requested by the Contractor and at Contractor's expense. The State is not responsible for bids that are late or lost regardless of cause or fault.

**M. BID OPENING**

Anyone may attend the opening. It is considered a public opening. The Buyer will read the names of the respondents. Depending upon the complexity of the bid for goods, the Buyer may read the bids aloud or allow bids be available for viewing by the public during the bid opening. Once the bid opening has concluded, the bids will not be available for viewing until the Intent to Award has been posted. An initial bid tabulation will be posted to the website as soon as feasible. Information identified as proprietary by the submitting contractor, in accordance with the solicitation and state statute, will not be posted. If the state determines submitted information should not be withheld, in accordance with the [Public Records Act](#), or if ordered to release any withheld information, said information may then be released. The submitting contractor will be notified of the release and it shall be the obligation of the submitting contractor to take further action, if it believes the information should not be released.

**N. INVITATION TO BID REQUIREMENTS**

The bids will first be examined to determine if all requirements listed below have been addressed and whether further evaluation is warranted. Bids not meeting the requirements may be rejected as non-responsive. The requirements are as follows:

1. Original Commodity ITB form signed using an indelible method (electronic signatures approved by the Nebraska Secretary of State are acceptable);
2. Clarity and responsiveness of the bid;
3. Completed Sections II through VI;
4. State's Bid Sheet.

**O. EVALUATION OF BIDS**

All bids that are responsive to the solicitation will be evaluated based on the following:

1. Neb. Rev. Stat. § 81-161 allows the State to consider a variety of factors, including, but not limited to, the quality of performance of previous contracts to be considered when evaluating responses to competitively bid solicitations in determining the lowest responsible bidder. Information obtained from any Vendor Performance Notice or any Vendor Improvement Request (See Terms & Conditions, Section H) may be used in evaluating responses to solicitations for goods and services to determine the best value for the State.
2. Neb. Rev. Stat. § 73-107 allows for a preference for a resident disabled veteran or business located in a designated enterprise zone. When a state contract is to be awarded to the lowest responsible contractor, a resident disabled veteran or a business located in a designated enterprise zone under the Enterprise Zone Act shall be allowed a preference over any other resident or nonresident contractor, if all other factors are equal.

Resident disabled veterans means any person (a) who resides in the State of Nebraska, who served in the United States Armed Forces, including any reserve component or the National Guard, who was discharged or otherwise separated with a characterization of honorable or general (under honorable conditions), and who possesses a disability rating letter issued by the United States Department of Veterans Affairs establishing a service-connected disability or a disability determination from the United States Department of Defense and (b)(i) who owns and controls a business or, in the case of a publicly owned business, more than fifty percent of the stock is owned by one or more persons described in subdivision (a) of this subsection and (ii) the management and daily business operations of the business are controlled by one or more persons described in subdivision(a) of this subsection. Any contract entered into without compliance with this section shall be null and void.

Therefore, if a resident disabled veteran or business located in a designated enterprise zone submits a bid in accordance with Neb. Rev. Stat. § 73-107 and has so indicated on the ITB cover page under "Contractor must complete the following" requesting priority/preference to be considered in the award of this contract, the following will need to be submitted by the contractor within ten (10) business days of request:

- a. Documentation from the United States Armed Forces confirming service;
- b. Documentation of discharge or otherwise separated characterization of honorable or general (under honorable conditions);
- c. Disability rating letter issued by the United States Department of Veterans Affairs establishing a service-connected disability or a disability determination from the United States Department of Defense; and
- d. Documentation which shows ownership and control of a business or, in the case of a publicly owned business, more than fifty percent of the stock is owned by one or more persons described in subdivision (a) of this subsection; and the management and daily business operations of the business are controlled by one or more persons described in subdivision (a) of this subsection.

Failure to submit the requested documentation within ten (10) business days of notice will disqualify the contractor from consideration of the preference.

**P. BEST AND FINAL OFFER**

If best and final offers (BAFO) are requested by the State and submitted by the contractor, they will be evaluated (using the stated BAFO criteria) and ranked by the Evaluation Committee. The State reserves the right to conduct more than one BAFO. The award will then be granted to the lowest responsible contractor. However, a contractor should provide its best offer in its original bid. Contractors should not expect that the State will request a BAFO.

**Q. REFERENCE AND CREDIT CHECKS**

The State reserves the right to conduct and consider reference and credit checks. The State reserves the right to use third parties to conduct reference and credit checks. By submitting a bid in response to this solicitation, the contractor grants to the State the right to contact or arrange a visit in person with any or all of the contractor's clients. Reference and credit checks may be grounds to reject a bid, withdraw an intent to award, or rescind the award of a contract.

**R. AWARD**

The State reserves the right to evaluate bids and award contracts in a manner using criteria selected at the State's discretion and in the State's best interest. After evaluation of the bids, or at any point in the solicitation process, the State of Nebraska may take one or more of the following actions:

1. Amend the solicitation;
2. Extend the time of or establish a new bid opening time;
3. Waive deviations or errors in the State's solicitation process and in contractor bids that are not material, do not compromise the solicitation process or a contractor's bid, and do not improve a contractor's competitive position;
4. Accept or reject a portion of or all of a bid;
5. Accept or reject all bids;
6. Withdraw the solicitation;
7. Elect to rebid the solicitation;
8. Award single lines or multiple lines to one or more contractors; or,
9. Award one or more all-inclusive contracts.

The State of Nebraska may consider, but is not limited to considering, one or more of the following award criteria:

1. Price;
2. Location;
3. Quality;
4. Delivery time;
5. Contractor qualifications and capabilities;
6. State contract management requirements and/or costs; and,

The solicitation does not commit the State to award a contract. Once intent to award decision has been determined, it will be posted to the internet at: <https://das.nebraska.gov/materiel/bidopps.html>

Any protests must be filed by a contractor within ten (10) business days after the intent to award decision is posted to the internet. Grievance and protest procedure is available on the internet at: [https://das.nebraska.gov/materiel/docs/pdf/ProtestGrievanceWithGuidance\\_08042021.pdf](https://das.nebraska.gov/materiel/docs/pdf/ProtestGrievanceWithGuidance_08042021.pdf)

**S. SPECIFICATIONS**

Any manufacturer's names, trade names, brand names, information and/or catalog numbers listed in a specification are for reference and not intended to limit competition, but will be used as the standard by which equivalent material offered will be judged. The Materiel Administrator or his or her designee will be the sole judge of equivalency. The Contractor may offer any brands which meets or exceeds the specification. When a specific product is required, the solicitation will so state. Any item bid is to be the latest current model under standard production at the time of order. No used or refurbished equipment will be accepted, unless otherwise stated.

**T. SAMPLES**

When requested, samples should be furnished at the Contractor's expense prior to the opening of the bid, unless another time is specified. Each sample should be labeled clearly, and identify the Contractor's name, the ITB number, item number, and the brand and model number, if applicable. Samples submitted must be the commodities or equipment which would be delivered if awarded the bid. The State reserves the right to request samples even though this may not have been set forth in the solicitation. Samples may be destroyed in testing. If a sample is not destroyed in testing and a Contractor wishes to have the sample returned, it will be returned at the Contractor's expense upon

request. The sample will not be returned until thirty (30) calendar days after any bid protest or, the execution of a contract. The Contractor shall have ten (10) calendar days to arrange for the return of the sample to the Contractor following any of the above dates. If no request from the Contractor is received within the above dates, the State reserves the right to use, donate, or surplus the samples in accordance with the State's policies.

**U. ALTERNATE/EQUIVALENT BIDS**

Contractor may offer bids which are at variance from the express specifications of the solicitation. The State reserves the right to consider and accept such bids if, in the judgment of SPB, the bid will result in goods and/or services equivalent to or better than those which would be supplied in the original bid specifications. Contractor must indicate on the solicitation the manufacturer's name, number and shall submit with their bid, sketches, descriptive literature and/or complete specifications. Reference to literature submitted with a previous bid will not satisfy this provision. Bids which do not comply with these requirements are subject to rejection. In the absence of any stated deviation or exception, the bid will be accepted as in strict compliance with all terms, conditions and specification, and the Contractor shall be held liable therefore.

**V. LUMP SUM OR "ALL OR NONE" BIDS**

The State reserves the right to purchase item-by-item, by groups or as a total when the State may benefit by so doing. Contractors may submit a bid on an "all or none" or "lump sum" basis, but should also submit a bid on an item-by-item basis. The term "all or none" means a conditional bid which requires the purchase of all items on which bids are offered and bidder declines to accept award on individual items; a "lump sum" bid is one in which the bidder offers a lower price than the sum of the individual bids if all items are purchased, but agrees to deliver individual items at the prices quoted.

**"LUMP SUM" OR "ALL OR NONE" BIDS SHOULD BE CONSPICUOUSLY MARKED ON THE FIRST PAGE OF THE ITB AND BID SHEET (IF APPLICABLE)**

**W. ALTERNATIVE SUBMISSION METHODS PROHIBITED**

SPB will not accept bids by mail, email, voice, or telephone bid **except** for one-time purchases under \$50,000.00.

**X. BID TABULATIONS**

Bid tabulations are available on the website at: <https://das.nebraska.gov/materiel/bidopps.html>.

**Y. REJECTION OF BIDS**

The State reserves the right to reject any or all bids, wholly or in part, in the best interest of the State.

**Z. RESIDENT BIDDER**

Pursuant to Neb. Rev. Stat. §§ 73-101.01 through 73-101.02, a resident bidder shall be allowed a preference against a non-resident bidder from a state which gives or requires a preference to bidders from that state. The preference shall be equal to the preference given or required by the state of the nonresident bidders. Where the lowest responsible bid from a resident bidder is equal in all respects to one from a nonresident bidder from a state which has no preference law, the resident bidder shall be awarded the contract. The provision of this preference shall not apply to any contract for any project upon which federal funds would be withheld because of the provisions of this preference.

## II. TERMS AND CONDITIONS

By signing the solicitation, Contractor agrees to be legally bound by all the accepted terms and conditions as well as any proposed alternative terms and conditions submitted with the bid. The State reserves the right to negotiate rejected or proposed alternative language. If the State and Contractor fail to agree on the final Terms and Conditions, the State reserves the right to reject the bid. The State is soliciting bids in response to the solicitation. The State reserves the right to reject bids that attempt to substitute the Contractor's commercial contracts and/or documents for this solicitation.

The Contractor should submit with their bid any license, user agreement, service level agreement, or similar documents that the Contractor wants incorporated in the Contract. Upon notice of Intent to Award, the Contractor must submit a copy of these documents in an editable Word format. The State will not consider incorporation of any document not submitted with the Contractor's bid. These documents shall be subject to negotiation and will be incorporated as addendums if agreed to by the Parties.

If a conflict or ambiguity arises after the addendums have been negotiated and agreed to, the addendums shall be interpreted as follows:

1. If only one (1) Party's document has a particular clause then that clause shall control;
2. If both Party's documents have a similar clause, but the clauses do not conflict, the clauses shall be read together;
3. If both Party's documents have a similar clause, but the clauses conflict, the State's clause shall control.

### A. GENERAL

The contract resulting from this solicitation shall incorporate the following documents:

1. Invitation to Bid and Addenda;
2. Amendments to the solicitation;
3. Questions and Answers;
4. Contractor's bid response;
5. The executed Contract and any Addenda, if applicable, and properly submitted documents; and,
6. Amendments to the Contract

These documents constitute the entirety of the contract.

Unless otherwise specifically stated in a future contract amendment, in case of any conflict between the incorporated documents, the documents shall govern in the following order of preference with number one (1) receiving preference over all other documents and with each lower numbered document having preference over any higher numbered document: 1) Amendment to the executed Contract with the most recent dated amendment having the highest priority, 2) executed Contract and any attached Addenda, 3) Amendments to solicitation and any Questions and Answers, 4) the original solicitation document and any Addenda, and 5) the Contractor's submitted Bid.

Any ambiguity or conflict in the contract discovered after its execution, not otherwise addressed herein, shall be resolved in accordance with the rules of contract interpretation as established in the State.

### B. NOTIFICATION

Contractor and State shall identify the contract manager who shall serve as the point of contact for the executed contract.

Communications regarding the executed contract shall be in writing and shall be deemed to have been given if delivered personally; electronically, return receipt requested; or mailed, return receipt requested. All notices, requests, or communications shall be deemed effective upon receipt. Either Party may change its address for notification purposes by giving notice of the change, and setting forth the new address and an effective date.

### C. NOTICE (POC)

The State reserves the right to appoint a Buyer's Representative to manage [or assist the Buyer in managing] the contract on behalf of the State. The Buyer's Representative will be appointed in writing, and the appointment document will specify the extent of the Buyer's Representative authority and responsibilities. If a Buyer's Representative is appointed, the Contractor will be provided a copy of the appointment document and is expected to cooperate accordingly with the Buyer's Representative. The Buyer's Representative has no authority to bind the State to a contract, amendment, addendum, or other change or addition to the contract.

### D. GOVERNING LAW (Nonnegotiable)

Notwithstanding any other provision of this contract, or any amendment or addendum(s) entered into contemporaneously or at a later time, the parties understand and agree that, (1) the State of Nebraska is a sovereign state and its authority to contract is therefore subject to limitation by the State's Constitution, statutes, common law, and regulation; (2) this contract will be interpreted and enforced under the laws of the State of Nebraska; (3) any

action to enforce the provisions of this contract must be brought in the State of Nebraska per state law; (4) the person signing this contract on behalf of the State of Nebraska does not have the authority to waive the State's sovereign immunity, statutes, common law, or regulations; (5) the indemnity, limitation of liability, remedy, and other similar provisions of the final contract, if any, are entered into subject to the State's Constitution, statutes, common law, regulations, and sovereign immunity; and, (6) all terms and conditions of the final contract, including but not limited to the clauses concerning third-party use, licenses, warranties, limitations of liability, governing law and venue, usage verification, indemnity, liability, remedy or other similar provisions of the final contract are entered into specifically subject to the State's Constitution, statutes, common law, regulations, and sovereign immunity.

The Parties must comply with all applicable local, state and federal laws, ordinances, rules, orders, and regulations.

**E. AMENDMENT**

This Contract may be amended in writing, within scope, upon the agreement of both parties.

**F. CHANGE ORDERS OR SUBSTITUTIONS**

The State and the Contractor, upon the written agreement, may make changes to the contract within the general scope of the solicitation. Changes may involve specifications, the quantity of work, or such other items as the State may find necessary or desirable. Corrections of any deliverable, service, or work required pursuant to the contract shall not be deemed a change. The Contractor may not claim forfeiture of the contract by reasons of such changes.

The Contractor shall prepare a written description of the work required due to the change and an itemized cost sheet for the change. Changes in work and the amount of compensation to be paid to the Contractor shall be determined in accordance with applicable unit prices if any, a pro-rated value, or through negotiations. The State shall not incur a price increase for changes that should have been included in the Contractor's bid, were foreseeable, or result from difficulties with or failure of the Contractor's bid or performance.

No change shall be implemented by the Contractor until approved by the State, and the Contract is amended to reflect the change and associated costs, if any. If there is a dispute regarding the cost, but both parties agree that immediate implementation is necessary, the change may be implemented, and cost negotiations may continue with both Parties retaining all remedies under the contract and law.

In the event any product is discontinued or replaced upon mutual consent during the contract period or prior to delivery, the State reserves the right to amend the contract or purchase order to include the alternate product at the same price.

**\*\*\*Contractor will not substitute any item that has been awarded without prior written approval of SPB\*\*\***

**G. RECORD OF VENDOR PERFORMANCE**

The State may document the vendor's performance, which may include, but is not limited to, the customer service provided by the vendor, the ability of the vendor, the skill of the vendor, and any instance(s) of products or services delivered or performed which fail to meet the terms of the purchase order, contract, and/or Invitation to Bid specifications. In addition to other remedies and options available to the State, the State may issue one or more notices to the vendor outlining any issues the State has regarding the vendor's performance for a specific contract ("Vendor Performance Notice"). The State may also document the Vendor's performance in a report, which may or may not be provided to the vendor ("Vendor Improvement Request"). The Vendor shall respond to any Vendor Performance Notice or Vendor Improvement Request in accordance with such notice or request. At the sole discretion of the State, such Vendor Performance Notices and Vendor Improvement Requests may be placed in the State's records regarding the vendor and may be considered by the State and held against the vendor in any future contract or award opportunity.

**H. NOTICE OF POTENTIAL CONTRACTOR BREACH**

If Contractor breaches the contract or anticipates breaching the contract, the Contractor shall immediately give written notice to the State. The notice shall explain the breach or potential breach, a proposed cure, and may include a request for a waiver of the breach if so desired. The State may, in its discretion, temporarily or permanently waive the breach. By granting a waiver, the State does not forfeit any rights or remedies to which the State is entitled by law or equity, or pursuant to the provisions of the contract. Failure to give immediate notice, however, may be grounds for denial of any request for a waiver of a breach.

**I. BREACH**

Either Party may terminate the contract, in whole or in part, if the other Party breaches its duty to perform its obligations under the contract in a timely and proper manner. Termination requires written notice of default and a thirty (30) calendar day (or longer at the non-breaching Party's discretion considering the gravity and nature of the default) cure period. Said notice shall be delivered by email, read-receipt requested; Certified Mail, Return Receipt Requested; or in person with proof of delivery. Allowing time to cure a failure or breach of contract does not waive

the right to immediately terminate the contract for the same or different contract breach which may occur at a different time.

In case of breach by the Contractor, the State may, without unreasonable delay, make a good faith effort to make a reasonable purchase or contract to purchased goods in substitution of those due from the contractor. The State may recover from the Contractor as damages the difference between the costs of covering the breach. Notwithstanding any clause to the contrary, the State may also recover the contract price together with any incidental or consequential damages defined in UCC Section 2-715, but less expenses saved in consequence of Contractor's breach. OR In case of default of the Contractor, the State may contract the service from other sources and hold the Contractor responsible for any excess cost occasioned thereby.

The State's failure to make payment shall not be a breach, and the Contractor shall retain all available statutory remedies. (See Indemnity - Self-Insurance and Payment)

**J. NON-WAIVER OF BREACH**

The acceptance of late performance with or without objection or reservation by a Party shall not waive any rights of the Party nor constitute a waiver of the requirement of timely performance of any obligations remaining to be performed.

**K. SEVERABILITY**

If any term or condition of the contract is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and conditions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the contract did not contain the provision held to be invalid or illegal.

**L. INDEMNIFICATION**

**1. GENERAL**

The Contractor agrees to defend, indemnify, and hold harmless the State and its employees, volunteers, agents, and its elected and appointed officials ("the indemnified parties") from and against any and all claims, liens, demands, damages, liability, actions, causes of action, losses, judgments, costs, and expenses of every nature, including investigation costs and expenses, settlement costs, and attorney fees and expenses ("the claims"), sustained or asserted against the State for personal injury, death, or property loss or damage, arising out of, resulting from, or attributable to the willful misconduct, negligence, error, or omission of the Contractor, its employees, subcontractors, consultants, representatives, and agents, resulting from this contract, except to the extent such Contractor liability is attenuated by any action of the State which directly and proximately contributed to the claims.

**2. SELF-INSURANCE (Statutory)**

The State is self-insured for any loss and purchases excess insurance coverage pursuant to Neb. Rev. Stat. § 81-8,239.01. If there is a presumed loss under the provisions of this contract, Contractor may file a claim with the Office of Risk Management pursuant to Neb. Rev. Stat. §§ 81-8,829 through 81-8,306 for review by the State Claims Board. The State retains all rights and immunities under the State Miscellaneous (§ 81-8,294), Tort (§ 81-8,209), and Contract Claim Acts (§ 81-8,302), as outlined in Neb. Rev. Stat. § 81-8,209 et seq. and under any other provisions of law and accepts liability under this contract to the extent provided by law.

**M. ATTORNEY'S FEES**

In the event of any litigation, appeal, or other legal action to enforce any provision of the contract, the Parties agree to pay all expenses of such action, as permitted by law and if ordered by the court, including attorney's fees and costs, if the other Party prevails.

**N. ASSIGNMENT, SALE, OR MERGER**

Either Party may assign the contract upon mutual written agreement of the other Party. Such agreement shall not be unreasonably withheld.

The Contractor retains the right to enter into a sale, merger, acquisition, internal reorganization, or similar transaction involving Contractor's business. Contractor agrees to cooperate with the State in executing amendments to the contract to allow for the transaction. If a third party or entity is involved in the transaction, the Contractor will remain responsible for performance of the contract until such time as the person or entity involved in the transaction agrees in writing to be contractually bound by this contract and perform all obligations of the contract.

**O. CONTRACTING WITH OTHER POLITICAL SUBDIVISIONS OF THE STATE OR ANOTHER STATE**

The Contractor may, but shall not be required to, allow agencies, as defined in Neb. Rev. Stat. § 81-145, to use this contract. The terms and conditions, including price, of the contract may not be amended. The State shall not be contractually obligated or liable for any contract entered into pursuant to this clause.

The Contractor may, but shall not be required to, allow other states, agencies or divisions of other states, or political subdivisions of other states to use this contract. The terms and conditions, including price, of this contract shall apply to any such contract, but may be amended upon mutual consent of the Parties. The State of Nebraska shall not be contractually or otherwise obligated or liable under any contract entered into pursuant to this clause. The State shall be notified if a contract is executed based upon this contract.

**P. FORCE MAJEURE**

Neither Party shall be liable for any costs or damages, or for default resulting from its inability to perform any of its obligations under the contract due to an unforeseeable natural or man-made event outside the control and not the fault of the affected Party ("Force Majeure Event"). The Party so affected shall immediately make a written request for relief to the other Party, and shall have the burden of proof to justify the request. The other Party may grant the relief requested; relief may not be unreasonably withheld. Labor disputes with the impacted Party's own employees will not be considered a Force Majeure Event.

**Q. CONFIDENTIALITY**

All materials and information provided by the Parties or acquired by a Party on behalf of the other Party shall be regarded as confidential information. All materials and information provided or acquired shall be handled in accordance with federal and state law, and ethical standards. Should said confidentiality be breached by a Party, the Party shall notify the other Party immediately of said breach and take immediate corrective action.

It is incumbent upon the Parties to inform their officers and employees of the penalties for improper disclosure imposed by the Privacy Act of 1974, 5 U.S.C. 552a. Specifically, 5 U.S.C. 552a (i)(1), which is made applicable by 5 U.S.C. 552a (m)(1), provides that any officer or employee, who by virtue of his/her employment or official position has possession of or access to agency records which contain individually identifiable information, the disclosure of which is prohibited by the Privacy Act or regulations established thereunder, and who knowing that disclosure of the specific material is prohibited, willfully discloses the material in any manner to any person or agency not entitled to receive it, shall be guilty of a misdemeanor and fined not more than \$5,000.

**R. EARLY TERMINATION**

The contract may be terminated as follows:

1. The State and the Contractor, by mutual written agreement, may terminate the contract at any time.
2. The State, at its sole discretion, may terminate the contract for any reason upon thirty (30) calendar days' written notice to the Contractor. Such termination shall not relieve the Contractor of warranty or other service obligations incurred under the terms of the contract. In the event of termination the Contractor shall be entitled to payment, determined on a pro rata basis, for products or services satisfactorily performed or provided.
3. The State may terminate the contract immediately for the following reasons:
  - a. if directed to do so by statute;
  - b. Contractor has made an assignment for the benefit of creditors, has admitted in writing its inability to pay debts as they mature, or has ceased operating in the normal course of business;
  - c. a trustee or receiver of the Contractor or of any substantial part of the Contractor's assets has been appointed by a court;
  - d. fraud, misappropriation, embezzlement, malfeasance, misfeasance, or illegal conduct pertaining to performance under the contract by its Contractor, its employees, officers, directors, or shareholders;
  - e. an involuntary proceeding has been commenced by any party against the Contractor under any one of the chapters of Title 11 of the United States Code and (i) the proceeding has been pending for at least sixty (60) calendar days; or (ii) the Contractor has consented, either expressly or by operation of law, to the entry of an order for relief; or (iii) the Contractor has been decreed or adjudged a debtor;
  - f. a voluntary petition has been filed by the Contractor under any of the chapters of Title 11 of the United States Code;
  - g. Contractor intentionally discloses confidential information;
  - h. Contractor has or announces it will discontinue support of the deliverable; and,
  - i. In the event funding is no longer available.

**S. CONTRACT CLOSEOUT**

Upon termination of the contract for any reason the Contractor shall within thirty (30) days, unless stated otherwise herein:

1. Transfer all completed or partially completed deliverables to the State;
2. Transfer ownership and title to all completed or partially completed deliverables to the State;
3. Return to the State all information and data, unless the Contractor is permitted to keep the information or data by contract or rule of law. Contractor may retain one copy of any information or data as required to comply with applicable work product documentation standards or as are automatically retained in the course of Contractor's routine back up procedures;
4. Cooperate with any successor contactor, person or entity in the assumption of any or all of the obligations of this contract;
5. Cooperate with any successor contactor, person or entity with the transfer of information or data related to this contract;
6. Return or vacate any state owned real or personal property; and,
7. Return all data in a mutually acceptable format and manner.

Nothing in this section should be construed to require the Contractor to surrender intellectual property, real or person property, or information or data owned by the Contractor for which the State has no legal claim.

### III. CONTRACTOR DUTIES

#### A. INDEPENDENT CONTRACTOR / OBLIGATIONS

It is agreed that the Contractor is an independent contractor and that nothing contained herein is intended or should be construed as creating or establishing a relationship of employment, agency, or a partnership.

The Contractor is solely responsible for fulfilling the contract. The Contractor or the Contractor's representative shall be the sole point of contact regarding all contractual matters.

The Contractor shall secure, at its own expense, all personnel required to perform the services under the contract. The personnel the Contractor uses to fulfill the contract shall have no contractual or other legal relationship with the State; they shall not be considered employees of the State and shall not be entitled to any compensation, rights or benefits from the State, including but not limited to, tenure rights, medical and hospital care, sick and vacation leave, severance pay, or retirement benefits.

By-name personnel commitments made in the Contractor's bid shall not be changed without the prior written approval of the State. Replacement of these personnel, if approved by the State, shall be with personnel of equal or greater ability and qualifications.

The Contractor warrants that all persons assigned to the project shall be employees of the Contractor or a subcontractor and shall be fully qualified to perform the work required herein. Personnel employed by the Contractor or a subcontractor to fulfill the terms of the contract shall remain under the sole direction and control of the Contractor or the subcontractor respectively.

With respect to its employees, the Contractor agrees to be solely responsible for the following:

1. Any and all pay, benefits, and employment taxes and/or other payroll withholding;
2. Any and all vehicles used by the Contractor's employees, including all insurance required by state law;
3. Damages incurred by Contractor's employees within the scope of their duties under the contract;
4. Maintaining Workers' Compensation and health insurance that complies with state and federal law and submitting any reports on such insurance to the extent required by governing law;
5. Determining the hours to be worked and the duties to be performed by the Contractor's employees; and,
6. All claims on behalf of any person arising out of employment or alleged employment (including without limit claims of discrimination alleged against the Contractor, its officers, agents, or subcontractors or subcontractor's employees).

If the Contractor intends to use any subcontractor, the subcontractor's level of effort, tasks, and time allocation must be clearly defined in the Contractor's bid. The Contractor shall agree that it will not utilize any subcontractors not specifically included in its bid in the performance of the contract without the prior written authorization of the State. If the Contractor subcontracts any of the work, the Contractor agrees to pay any and all subcontractors in accordance with the Contractor's agreement with the respective subcontractor(s).

The State reserves the right to require the Contractor to reassign or remove from the project any Contractor or subcontractor employee.

Contractor shall insure that the terms and conditions contained in any contract with a subcontractor does not conflict with the terms and conditions of this contract.

The Contractor shall include a similar provision, for the protection of the State, in the contract with any subcontractor engaged to perform work on this contract.

#### B. EMPLOYEE WORK ELIGIBILITY STATUS

The Contractor is required and hereby agrees to use a federal immigration verification system to determine the work eligibility status of employees physically performing work within the State. A federal immigration verification system means the electronic verification of the work authorization program authorized by the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, 8 U.S.C. 1324a, known as the E-Verify Program, or an equivalent federal program designated by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of an employee.

If the Contractor is an individual or sole proprietorship, the following applies:

1. The Contractor must complete the United States Citizenship Attestation Form, available on the DAS website at [https://das.nebraska.gov/materiel/purchase\\_bureau/vendor-info.html](https://das.nebraska.gov/materiel/purchase_bureau/vendor-info.html). The completed United States Attestation Form should be submitted with the solicitation response.
2. If the Contractor indicates on the attestation form that he or she is a qualified alien, the Contractor agrees to provide the U.S. Citizenship and Immigration Services documentation required to verify the Contractor's lawful presence in the United States using the Systematic Alien Verification for Entitlements (SAVE) Program.
3. The Contractor understands and agrees that lawful presence in the United States is required and the Contractor may be disqualified or the contract terminated if such lawful presence cannot be verified as required by Neb. Rev. Stat. § 4-108.

**C. COMPLIANCE WITH CIVIL RIGHTS LAWS AND EQUAL OPPORTUNITY EMPLOYMENT/NONDISCRIMINATION (Statutory)**

The Contractor shall comply with all applicable local, state, and federal statutes and regulations regarding civil rights laws and equal opportunity employment. The Nebraska Fair Employment Practice Act prohibits Contractors of the State, and their subcontractors, from discriminating against any employee or applicant for employment, with respect to hire, tenure, terms, conditions, compensation, or privileges of employment because of race, color, religion, sex, disability, marital status, or national origin (Neb. Rev. Stat. §§ 48-1101 through 48-1125). The Contractor guarantees compliance with the Nebraska Fair Employment Practice Act, and breach of this provision shall be regarded as a material breach of contract. The Contractor shall insert a similar provision in all subcontracts for goods or services to be covered by any contract resulting from this solicitation.

**D. COOPERATION WITH OTHER CONTRACTORS**

Contractor may be required to work with or in close proximity to other contractors or individuals that may be working on the same or different projects. The Contractor shall agree to cooperate with such other contractors or individuals, and shall not commit or permit any act which may interfere with the performance of work by any other contractor or individual. Contractor is not required to compromise Contractor's intellectual property or proprietary information unless expressly required to do so by this contract.

**E. DISCOUNTS**

Prices quoted shall be inclusive of ALL trade discounts. Cash discount terms of less than thirty (30) days will not be considered as part of the bid. Cash discount periods will be computed from the date of receipt of a properly executed claim voucher or the date of completion of delivery of all items in a satisfactory condition, whichever is later.

**F. PRICES**

Prices quoted shall be net, including transportation and delivery charges fully prepaid by the contractor, F.O.B. destination named in the solicitation. No additional charges will be allowed for packing, packages, or partial delivery costs. When an arithmetic error has been made in the extended total, the unit price will govern.

Any request for an increase must be submitted in writing to the State Purchasing Bureau a minimum of thirty (30) days prior to proposed effective date of increase and must show cause and be accompanied by supporting documentation (such as notification letter from manufacturer). Further documentation may be required by the State, to authenticate the increase (such as manufacturer invoices). Failure to supply any requested supporting documentation may be grounds to cancel the contract. The State further reserves the right to reject any proposed price increase(s), cancel the contract and re-bid if determined to be in the best interest of the State. No price increases are to be billed to any State Agencies prior to written amendment of the contract by the parties.

The State reserves the right to deny any requested price increase. No price increases are to be effective or billed to any State Agencies prior to written amendment of the contract by the parties.

The State will be given full proportionate benefit of any decreases for the term of the contract.

**G. COST CLARIFICATION**

The State reserves the right to review all aspects of cost for reasonableness and to request clarification of any bid where the cost component shows significant and unsupported deviation from industry standards or in areas where detailed pricing is required.

**H. PERMITS, REGULATIONS, LAWS**

The contract price shall include the cost of all royalties, licenses, permits, and approvals, whether arising from patents, trademarks, copyrights or otherwise, that are in any way involved in the contract. The Contractor shall obtain and pay for all royalties, licenses, and permits, and approvals necessary for the performance of the contract. The

Contractor must guarantee that it has the full legal right to the materials, supplies, equipment, software, and other items used to execute this contract.

**I. NOTICE OF POTENTIAL CONTRACTOR BREACH**

If Contractor breaches the contract or anticipates breaching the contract the Contractor shall immediately give written notice to the State. The notice shall explain the breach or potential breach, and may include a request for a waiver of the breach if so desired. The State may, at its discretion, temporarily or permanently waive the breach. By granting a temporary waiver, the State does not forfeit any rights or remedies to which the State is entitled by law or equity, or pursuant to the provisions of the contract. Failure to give immediate notice, however, may be grounds for denial of any request for a waiver of a breach.

**J. ANTITRUST**

The Contractor hereby assigns to the State any and all claims for overcharges as to goods and/or services provided in connection with this contract resulting from antitrust violations which arise under antitrust laws of the United States and the antitrust laws of the State.

**K. CONFLICT OF INTEREST**

By submitting a bid, bidder certifies that no relationship exists between the bidder and any person or entity which either is, or gives the appearance of, a conflict of interest related to this Invitation to Bid or project.

Bidder further certifies that bidder will not employ any individual known by bidder to have a conflict of interest nor shall bidder take any action or acquire any interest, either directly or indirectly, which will conflict in any manner or degree with the performance of its contractual obligations hereunder or which creates an actual or appearance of conflict of interest.

If there is an actual or perceived conflict of interest, bidder shall provide with its bid a full disclosure of the facts describing such actual or perceived conflict of interest and a proposed mitigation plan for consideration. The State will then consider such disclosure and proposed mitigation plan and either approve or reject as part of the overall bid evaluation.

**L. STATE PROPERTY**

The Contractor shall be responsible for the proper care and custody of any State-owned property which is furnished for the Contractor's use during the performance of the contract. The Contractor shall reimburse the State for any loss or damage of such property; normal wear and tear is expected.

**M. SITE RULES AND REGULATIONS**

The Contractor shall use its best efforts to ensure that its employees, agents, and subcontractors comply with site rules and regulations while on State premises. If the Contractor must perform on-site work outside of the daily operational hours set forth by the State, it must make arrangements with the State to ensure access to the facility and the equipment has been arranged. No additional payment will be made by the State on the basis of lack of access, unless the State fails to provide access as agreed to in writing between the State and the Contractor.

**N. ADVERTISING**

The Contractor agrees not to refer to the contract award in advertising in such a manner as to state or imply that the company or its goods and services are endorsed or preferred by the State. Any publicity releases pertaining to the project shall not be issued without prior written approval from the State.

**O. NEBRASKA TECHNOLOGY ACCESS STANDARDS (Nonnegotiable)**

The State of Nebraska is committed to ensuring that all information and communication technology (ICT), developed, leased, or owned by the State of Nebraska, affords equivalent access to employees, program participants and members of the public who have disabilities as it affords to employees, program participants and members of the public who do not have disabilities.

ICT means information technology and other equipment, systems, technologies, or processes, for which the principal function is the creation, manipulation, storage, display, receipt, or transmission of electronic data and information, as well as any associated content. Contractor hereby agrees ICT includes computers and peripheral equipment, information kiosks and transaction machines, telecommunications equipment, customer premises equipment, multifunction office machines, software, applications, web sites, videos, and electronic documents. For the purposes of these assurances, ICT does not include ICT that is used exclusively by a contractor.

If the Contractor is providing a product or service that contains ICT and if the provided ICT is public-facing or the user will directly interact with it, the provided ICT must provide equivalent access or be modified during implementation to afford equivalent access to employees, program participants, and members of the public who have and who do not

have disabilities. The Contractor may comply with this section by complying with Section 508 of the Rehabilitation Act of 1973, as amended, and its implementing standards adopted and promulgated by the U.S. Access Board.

**P. DISASTER RECOVERY/BACK UP PLAN**

The Contractor shall have a disaster recovery and back-up plan to allow for continued delivery of goods or services under the specifications of the contract in the event of a disaster. The plan should include disaster contingency details related to equipment, personnel, facilities, and transportation. A copy of the disaster recovery and back-up plan should be provided upon request to the State.

**Q. DRUG POLICY**

Contractor certifies it maintains a drug free work place environment to ensure worker safety and workplace integrity. Contractor agrees to provide a copy of its drug free workplace policy at any time upon request by the State.

**R. WARRANTY**

Despite any clause to the contrary, the Contractor represents and warrants that its services hereunder shall be performed by competent personnel and shall be of professional quality consistent with generally accepted industry standards for the performance of such services and shall comply in all respects with the requirements of this Contract. For any breach of this warranty, the Contractor shall, for a period of ninety (90) days from performance of the service, perform the services again, at no cost to the State, or if Contractor is unable to perform the services as warranted, Contractor shall reimburse the State for all fees paid to Contractor for the unsatisfactory services. The rights and remedies of the parties under this warranty are in addition to any other rights and remedies of the parties provided by law or equity, including, without limitation actual damages, and, as applicable and awarded under the law, to a prevailing Party, reasonable attorneys' fees and costs.

**S. TIME IS OF THE ESSENCE**

Time is of the essence with respect to Contractor's performance and deliverables pursuant to this contract.

## IV. PAYMENT

### A. PROHIBITION AGAINST ADVANCE PAYMENT (Nonnegotiable)

Neb. Rev. Stat. § 81-2403 states, “[n]o goods or services shall be deemed to be received by an agency until all such goods or services are completely delivered and finally accepted by the agency.”

### B. TAXES (Nonnegotiable)

The State is not required to pay taxes and assumes no such liability as a result of this solicitation. The Contractor may request a copy of the Nebraska Department of Revenue, Nebraska Resale or Exempt Sale Certificate for Sales Tax Exemption, Form 13 for their records. Any property tax payable on the Contractor's equipment which may be installed in a state-owned facility is the responsibility of the Contractor.

### C. INVOICES (Nonnegotiable)

Invoices for payments must be submitted by the Contractor to the agency requesting the goods or services with sufficient detail to support payment. Invoices should be sent after delivery has been confirmed by the BOL. The terms and conditions included in the Contractor's invoice shall be deemed to be solely for the convenience of the parties. No terms or conditions of any such invoice shall be binding upon the State, and no action by the State, including without limitation the payment of any such invoice in whole or in part, shall be construed as binding or estopping the State with respect to any such term or condition, unless the invoice term or condition has been previously agreed to by the State as an amendment to the contract. **The State shall have forty-five (45) calendar days to pay after a valid and accurate invoice is received by the State.**

### D. INSPECTION AND APPROVAL

Final inspection and approval of all work required under the contract shall be performed by the designated State officials.

The State and/or its authorized representatives shall have the right to enter any premises where the Contractor or subcontractor duties under the contract are being performed, and to inspect, monitor or otherwise evaluate the work being performed. All inspections and evaluations shall be at reasonable times and in a manner that will not unreasonably delay work.

### E. PAYMENT (Nonnegotiable)

Payment will be made by the responsible agency in compliance with the State of Nebraska Prompt Payment Act. See Neb. Rev. Stat. § 81-2403. The State may require the Contractor to accept payment by electronic means such as ACH deposit. In no event shall the State be responsible or liable to pay for any goods and services provided by the Contractor prior to the effective date of the contract, and the Contractor hereby waives any claim or cause of action for any such services.

### F. LATE PAYMENT (Nonnegotiable)

The Contractor may charge the responsible agency interest for late payment in compliance with the State of Nebraska Prompt Payment Act. See Neb. Rev. Stat. §§ 81-2401 through 81-2408.

### G. SUBJECT TO FUNDING / FUNDING OUT CLAUSE FOR LOSS OF APPROPRIATIONS (Nonnegotiable)

The State's obligation to pay amounts due on the Contract for a fiscal years following the current fiscal year is contingent upon legislative appropriation of funds. Should funds not be appropriated, the State may terminate the contract with respect to those payments for the fiscal year(s) for which such funds are not appropriated. The State will give the Contractor written notice thirty (30) calendar days prior to the effective date of termination. All obligations of the State to make payments after the termination date will cease. The Contractor shall be entitled to receive just and equitable compensation for any authorized work which has been satisfactorily completed as of the termination date. In no event shall the Contractor be paid for a loss of anticipated profit.

### H. RIGHT TO AUDIT (First Paragraph is Nonnegotiable)

The State shall have the right to audit the Contractor's performance of this contract upon a thirty (30) day written notice. Contractor shall use generally accepted accounting principles, and shall maintain the accounting records, and other records and information relevant to the contract (Information) to enable the State to audit the contract. See Neb. Rev. Stat. § 84-304 et seq. The State may audit and the Contractor shall maintain the information during the term of the contract and for a period of five (5) years after the completion of this contract or until all issues or litigation are resolved, whichever is later. The Contractor shall make the Information available to the State at Contractor's place of business or a location acceptable to both Parties during normal business hours. If this is not practical or the Contractor so elects, the Contractor may provide electronic or paper copies of the Information. The State reserves the right to examine, make copies of, and take notes on any Information relevant to this contract, regardless of the form or the Information, how it is stored, or who possesses the Information. In no circumstances will Contractor be required to

create or maintain documents not kept in the ordinary course of Contractor's business operations, nor will Contractor be required to disclose any information, including but not limited to product cost data, which is confidential or proprietary to Contractor.

The Parties shall pay their own costs of the audit unless the audit finds a previously undisclosed overpayment by the State. If a previously undisclosed overpayment exceeds one-half of one percent (.5% ) of the total contract billings, or if fraud, material misrepresentations, or non-performance is discovered on the part of the Contractor, the Contractor shall reimburse the State for the total costs of the audit. Overpayments and audit costs owed to the State shall be paid within ninety (90) days of written notice of the claim. The Contractor agrees to correct any material weaknesses or condition found as a result of the audit.

## **V. SCOPE OF WORK**

The Contractor must provide the following information in response to this solicitation

### **A. SCOPE**

It is the intent of this bid invitation to establish a contract to supply UPS Systems per the attached specifications from date of award for a period of One (1) year with the option to renew for an additional Four (4) One (1) year periods when mutually agreeable to the contractor and the State. The State reserves the right to extend the period of this contract beyond the end date when mutually agreeable to the contractor and the State.

Complete specifications, manufacturer's current descriptive literature and/or advertising data sheets with cuts or photographs must be included with the bid for the IDENTICAL items proposed. Any information necessary to show compliance with these specifications not given on the manufacturer's descriptive literature and/or advertising data sheets must be supplied in writing on or attached to the bid document. If manufacturer's information necessary to show compliance with these specifications is not attached to the bid document, the Contractor may be required to submit requested information within three (3) business days of a written request. Failure to submit requested descriptive literature or advertising data sheets may be grounds to reject the bid.

## VI. TECHNICAL SPECIFICATIONS

### A. CONTRACTOR INSTRUCTIONS

Contractor must respond to each of the following statements. Specifications listed are minimum conditions that must be met in order for a Contractor to qualify for the award.

“YES” response means the Contractor guarantees they can meet this condition.

“NO” response means the Contractor cannot meet this condition and will not be considered.

“NO & PROVIDE ALTERNATIVE” responses should be used only with a narrative response in the NOTES/COMMENTS section explaining in detail any deviation from the Contractor’s ability to meet the condition, and an explanation of how this would be determined to be an acceptable alternative to meeting the condition. Alternatives must be detailed in such a way that allows such deviations to be fully evaluated. The State shall determine at its sole discretion whether or not the Contractor’s alternative is an acceptable alternative.

### B. NON-COMPLIANCE STATEMENT

| YES             | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|----|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES             |    |                          | 1. Read these specifications carefully. Any and all exceptions to these specifications must be written on or attached to solicitation response. Any noncompliance may void your bid. Non-compliance to any single specification can void your bid.                                                                                                                                                                                                                                                                                                       |
| YES             |    |                          | 2. It is the responsibility of Contractors to obtain information and clarifications as provided below. The State is not responsible for any erroneous or incomplete understandings or wrongful interpretations of this solicitation by any Contractor.                                                                                                                                                                                                                                                                                                   |
| YES             |    |                          | 3. No interpretation related to the meaning of solicitation specifications or other pre-bid documents will be made orally to any Contractor by the State. Any solicitation interpretation must be put in writing by the Contractor to: the State Purchasing Bureau, email questions to SPB. <a href="mailto:as.materielpurchasing@nebraska.gov">as.materielpurchasing@nebraska.gov</a> by the last day to submit written questions per the Schedule of Events. (Inquiries received after the last day to submit written questions may not be addressed). |
| NOTES/COMMENTS: |    |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### C. ENERGY STAR PRODUCTS

| YES             | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                            |
|-----------------|----|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES             |    |                          | 1. The contractor must provide products that earn the Energy Star and meet the Energy Star specifications for energy efficiency. The contractor is encouraged to visit <a href="https://www.energystar.gov/">https://www.energystar.gov/</a> for complete product specifications and updated lists of qualifying products. |
| NOTES/COMMENTS: |    |                          |                                                                                                                                                                                                                                                                                                                            |

**D. ANNUAL USAGE, ESTIMATED**

| YES                                                   | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------|----|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES                                                   |    |                          | 1. Annual usage figures provided are estimates and are not to be construed as either a minimum or maximum purchase quantity. The orders shall be for the actual quantities of each item ordered by or for any agency during the life of the contract. Contractor shall not impose minimum order requirements. |
| YES                                                   |    |                          | 2. Insert annual estimated usage here (may use Table Tools/Draw Table function to add more lines or may enlarge the size of the table to accommodate specifications)                                                                                                                                          |
| YES                                                   |    |                          | 3. <b><u>ESTIMATED ANNUAL USAGE</u></b><br>Cabinet: 6 EA<br>UPS Module: 20 EA<br>Batteries 80 EA<br>Battery Charge Monitoring System: 20 EA<br>Complete 1000W System: 10 EA<br>Complete 1100W System 10 EA                                                                                                    |
| NOTES/COMMENTS:<br>EXPECTED ANNUAL USAGE ACKNOWLEDGED |    |                          |                                                                                                                                                                                                                                                                                                               |

**E. USAGE REPORT**

| YES             | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                    |
|-----------------|----|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES             |    |                          | 1. The contractor shall, upon request, provide a usage report of this contract by state agencies and political subdivisions. Information will include agency name, item(s), and dollar amount and shall include the information of the time period requested. Information may be requested at any time by the SPB. |
| NOTES/COMMENTS: |    |                          |                                                                                                                                                                                                                                                                                                                    |

**F. DELIVERY ARO**

| YES                                                              | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------|----|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES                                                              |    |                          | <p>1. Delivery to be within six (6) to eight (8) weeks after receipt of order(s). Deliveries shall be made between 7 A.M. – 4 P.M, Monday through Friday (excluding State or Federal Holidays or as otherwise directed). If an emergency arises delivery arrangements will be scheduled by the facility/location personnel who placed the order and/or receiving personnel.</p> <p>There will be no minimum order requirements. Deliveries must be clearly marked with the purchase order number. If delays in delivery are anticipated, the Contractor will immediately notify NDOT of the expected delivery date. The order may be canceled if the delivery time is unsatisfactory, and the State may procure item(s) from other sources and the Contractor will be held responsible for any/all excess cost.</p> <p>At the time of delivery, a designated State employee will sign the "invoice/packing slip." This signature will only indicate that the order has been received and that the items actually delivered agree with the delivery invoice. This signature does not indicate all items were received in good condition and/or that there is not possible hidden damage..</p> |
| <b>NOTES/COMMENTS:</b><br>MATERIAL INVENTORIED AT TCC FACILITIES |    |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**G. DELIVERY LOCATIONS / INSTRUCTIONS (CONTRACTOR AGREES THAT THEY CAN MEET THE DELIVERY LOCATIONS/INSTRUCTIONS)**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                |
|-----|----|--------------------------|--------------------------------------------------------------------------------|
| YES |    |                          | 1. 5001 s 14 <sup>th</sup> St Lincoln, NE 68512                                |
| YES |    |                          | 2. North Platte Electronics 2400 W 14 <sup>th</sup> St. North Platte, NE 69101 |
|     |    |                          |                                                                                |

**H. PACKAGING**

| YES                    | NO | NO & PROVIDE ALTERNATIVE |                                                                                                         |
|------------------------|----|--------------------------|---------------------------------------------------------------------------------------------------------|
| YES                    |    |                          | 1. Packages are to be clearly marked with size, weight, color, quantity, and the purchase order number. |
| <b>NOTES/COMMENTS:</b> |    |                          |                                                                                                         |

**I. ORDERS**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                       |
|-----|----|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | 1. Orders will be placed either by, phone, e-mail or Internet (if available and not to the exclusion of the other methods).                                                                                                           |
| YES |    |                          | 2. All orders must reference a purchase order number and the purchase order number must be referenced on the packing slip, and invoice. Invoices are to be sent to the "Invoice to" address on the purchase order.                    |
| YES |    |                          | 3. An itemized invoice including the ordering agency name and ordering location, purchase order number, product description, unit cost, extension, and total charges will be mailed to the "invoice to" address on the purchase order |

|                                                                                  |  |  |    |                                                                       |
|----------------------------------------------------------------------------------|--|--|----|-----------------------------------------------------------------------|
| YES                                                                              |  |  | 4. | Contract must furnish copies of weight tickets to receiving personnel |
| YES                                                                              |  |  | 5. | There will be no minimum order requirements.                          |
| <b>NOTES/COMMENTS:</b><br>WRITTEN PO DOCUMENT REQUIRED TO FOLLOW UP PHONE ORDERS |  |  |    |                                                                       |

**J. QUALITY**

| YES                    | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                          |
|------------------------|----|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES                    |    |                          | 1. Product quality must meet specifications and be consistent for the term of the contract. All materials must be of first quality, under standard production by the manufacturer and be of standard design, complete as regularly advertised and marketed and be of proven performance. |
| YES                    |    |                          | 2. A guarantee of satisfactory performance by the contractor and meeting delivery dates are considered to be an integral part of the purchase contract resulting from this bid invitation.                                                                                               |
| YES                    |    |                          | 3. Products are to be fully guaranteed and may be returned for full credit or replacement (at the State's option) for any reason during the initial warranty period with no additional charges for shipping or restocking.                                                               |
| <b>NOTES/COMMENTS:</b> |    |                          |                                                                                                                                                                                                                                                                                          |

**K. PROHIBITED PRODUCTS**

| YES                    | NO |  |                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|----|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES                    |    |  | 1. The State will not accept Gray Market Products for this solicitation. Gray Market is defined as the trade of a commodity through distribution channels which, while legal, are unofficial, unauthorized, or unintended by the original manufacturer. Gray Market items are not designed to be sold in a particular market and cannot be supported by the authorized importer because of various reasons. |
| YES                    |    |  | 2. The State will not accept any products made by a company owned by the Chinese Communist Party. Furthermore, pursuant to Executive Order No. 23-05, the State will not accept any communications equipment or services developed by organizations on the Federal Communications Commission's Covered List.                                                                                                |
| YES                    |    |  | 3. The State will not accept goods from countries or persons identified on the Office of Foreign Assets Control Sanctions List.                                                                                                                                                                                                                                                                             |
| <b>NOTES/COMMENTS:</b> |    |  |                                                                                                                                                                                                                                                                                                                                                                                                             |

**L. AUTHORIZED DEALER & WARRANTY**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                 |
|-----|----|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | 1. To the extent required by the manufacturer, the Contractor shall be an authorized dealer. Contractor may be required to substantiate that he/she is an authorized dealer. Proof, if required, must be submitted to SPB within three (3) business days of the request and prior to the award of any contract. |
| YES |    |                          | 2. The terms of the original manufacturer's standard warranty shall apply to all equipment acquired from this solicitation for the entire warranty period.                                                                                                                                                      |

**NOTES/COMMENTS:****M. WARRANTY**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----|----|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | <p>1. The Contractor warrants for a period of one (1) year from the date of Acceptance that: (a) the Products perform according to all specific claims that the Contractor made in its response to the solicitation, (b) the Product is suitable for the ordinary purposes for which such Product is used, (c) the Product is suitable for any special purposes identified in the solicitation or for which the State has relied on the Contractor's skill or judgment, (d) the Product is designed and manufactured in a commercially reasonable manner, and (e) the Product is free of defects. Upon breach of the warranty, the Contractor will repair or replace (at no charge to the State) the Product whose nonconformance is discovered and made known to the Contractor. If the repaired and/or replaced Product proves to be inadequate, or fails of its essential purpose, the Contractor will refund the full amount of any payments that have been made. The rights and remedies of the parties under this warranty are in addition to any other rights and remedies of the parties provided by law or equity, including, without limitation actual damages, and, as applicable and awarded under the law, to a prevailing party, reasonable attorneys' fees and costs.</p> |

**NOTES/COMMENTS:****N. SAMPLES**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                                                |
|-----|----|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | <p>1. Samples of materials proposed may be required prior to an award, or at any time during the term of the contract.</p>                                                                                                                                                                                                                     |
| YES |    |                          | <p>2. Samples are to be provided within fourteen (14) business days of a written request.</p>                                                                                                                                                                                                                                                  |
| YES |    |                          | <p>3. Failure to provide samples or samples not meeting the specifications may void the bid or constitute a breach of the contract resulting from this bid invitation.</p>                                                                                                                                                                     |
| YES |    |                          | <p>4. Upon a written request from the State of Nebraska Purchasing Bureau, sample(s) shall be shipped to:</p> <p>Attn: Lincoln Electronics Shop<br/>5001 S 14<sup>th</sup> St<br/>Lincoln, NE 68512</p> <p>Receiving hours are between 8 A.M. and 4 P.M., Monday through Friday (excluding State holidays and / or as otherwise directed).</p> |

**NOTES/COMMENTS:**

**O. PERFORMANCE TESTING**

| YES                                                                   | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------|----|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES                                                                   |    |                          | 1. Samples of UPS Systems in accordance with the specifications utilizing materials and features as proposed, may be required prior to award.                                                                                                                                                                                               |
| YES                                                                   |    |                          | 2. Samples of UPS Systems shall be provided at no cost to the State and will not be returned to the Contractor upon completion of testing conducted by the Nebraska Department of Transportation .                                                                                                                                          |
| YES                                                                   |    |                          | 3. Contractor shall have ten (10) business days to provide sample(s) upon the State's written request.                                                                                                                                                                                                                                      |
| YES                                                                   |    |                          | 4. Sample UPS is to be of material and construction as bid. Failure to supply samples and/or sample(s) that do not meet specifications and/or fail any of the protocols/tests as outlined below, may be grounds to reject the bid.<br><br>Bids may be rejected based on the quality of samples provided.                                    |
| YES                                                                   |    |                          | 5. Upon a written request from the State of Nebraska Purchasing Bureau, sample(s) shall be shipped to:<br><br>Attn: NDOT Lincoln Electronics Shop<br>5001 S 14 <sup>th</sup> St<br>Lincoln, NE 68512<br><br>Receiving hours are between 8 A.M. and 4 P.M., Monday through Friday (excluding State holidays and / or as otherwise directed). |
| YES                                                                   |    |                          | 6. Performance Testing will be used to determine whether or not the supplied units meets the manufacturers advertised specifications and work based on NDOT protocol.                                                                                                                                                                       |
| <b>NOTES/COMMENTS:</b> PROVIDED SAMPLES MUST BE PURCHASED OR RETURNED |    |                          |                                                                                                                                                                                                                                                                                                                                             |

## VII. INVITATION TO BID – TECHNICAL AND MATERIAL SPECIFICATIONS / SPECIAL PROVISIONS

### Special Provisions for UPS Systems

#### A. BIDDER INSTRUCTIONS

Bidder must respond to each of the following statements. Specifications listed are minimum conditions that must be met for a Bidder to qualify for the award.

“YES” response means the Bidder guarantees they can meet this condition.

“NO” response means the Bidder cannot meet this condition and will not be considered.

“NO & PROVIDE ALTERNATIVE” responses should be used only with a narrative response in the NOTES/COMMENTS section explaining in detail any deviation from the Bidder’s ability to meet the condition, and an explanation of how this would be determined to be an acceptable alternative to meeting the condition. Alternatives must be detailed in such a way that allows such deviations to be fully evaluated. The State shall determine at its sole discretion whether the Bidder’s alternative is an acceptable alternative.

All items bid shall be of the latest manufacture in production as of the date of the Invitation to Bid and be of proven performance and under standard design complete as regularly advertised and marketed. All necessary materials for satisfactory performance of the supplies shall be incorporated into the Expanded Shale whether or not they may be specifically mentioned below.

All items bid shall conform to section 1033 in the 2007 Nebraska Department of Transportation Standard Specifications for highway construction and special provisions as specified in these bid documents.

#### B. NON-COMPLIANCE STATEMENT

| YES             | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|----|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES             |    |                          | 1. Read these specifications carefully. Any and all exceptions to these specifications must be written on or attached to quotation request. Any noncompliance may void your bid. Non-compliance to any single specification can void your bid.                                                                                                                                                                                                                                                                                                                   |
| YES             |    |                          | 2. It is the responsibility of Bidders to obtain information and clarifications as provided below. The State is not responsible for any erroneous or incomplete understandings or wrongful interpretations of this ITB by any bidder..                                                                                                                                                                                                                                                                                                                           |
| YES             |    |                          | 3. No interpretation related to the meaning of bid specifications or other pre-bid documents will be made orally to any bidder by the State. Any ITB interpretation must be put in via share file by the bidder to:<br><a href="https://nebraska.sharefile.com/r-raa84965834054c46a3f593bf91ce40a6">https://nebraska.sharefile.com/r-raa84965834054c46a3f593bf91ce40a6</a><br>by the last day to submit written questions that is specified in the Schedule of Events. (Inquiries received after the last day to submit written questions may not be addressed). |
| NOTES/COMMENTS: |    |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**C. TECHNICAL SPECIFICATIONS: UPS SYSTEM GENERAL**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----|----|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | <p>1. This specification establishes the minimum requirements for a complete emergency battery back-up system for use at traffic signals utilizing Light Emitting Diodes (LED) signals and pedestrian heads. The Uninterruptible Power Supply (UPS) shall include, but not be limited to the following:</p> <ul style="list-style-type: none"> <li>a. UPS with Inverter, Charger, Tap Switching Transformer and Internal Power Transfer Switch</li> <li>b. Automatic / Manual Bypass transfer Switch Unit</li> <li>c. Generator Transfer Switch Unit.</li> <li>d. Batteries</li> <li>e. Cabinet</li> <li>f. Wiring</li> </ul> |
| YES |    |                          | <p>2. The UPS Shall Provide reliable emergency power to a traffic signal in the event of a power failure or interruption</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**D. TECHNICAL SPECIFICATIONS: UPS SYSTEM OPERATIONAL**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                          |
|-----|----|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | <p>1. The UPS Shall provide the following operational modes when operating on battery power</p> <ul style="list-style-type: none"> <li>a. Full operation of all traffic signal devices</li> <li>b. Flash operation</li> <li>c. Combination of full and flash operation</li> </ul>        |
| YES |    |                          | <p>2. The UPS shall provide a minimum of 6 hours of full-time operation with a 500 watt load @ 25°C. the minimum battery size requirement is listed in the Batteries section</p>                                                                                                         |
| YES |    |                          | <p>3. The UPS shall be compatible with Model 30X, 33X, and 34X cabinets; the ITS cabinet; model 170 and 2070 controllers and any NEMA style cabinet, enclosures and controllers; the Advanced Transportation Controller; and all cabinet components for full time or flash operation</p> |
| YES |    |                          | <p>4. The UPS shall provide a minimum of 1,100 W/1,100 VA @25°C active output capacity with 83 percent minimum inverter efficiency with 30% minimum loading</p>                                                                                                                          |
| YES |    |                          | <p>5. When operating in backup mode, the UPS output shall be 120VAC <math>\pm</math> 2%, pure sine wave output, <math>\leq</math>3%THD, 60Hz <math>\pm</math> 5%.</p>                                                                                                                    |
| YES |    |                          | <p>6. The UPS DC system voltage shall be 48VDC nominal.</p>                                                                                                                                                                                                                              |

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|-----|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |  |  | <b>7.</b> The maximum transfer time allowed, from disruption of normal utility line voltage to stabilized inverter line voltage from batteries, shall be 5 milliseconds (ms). The same maximum allowable time shall also apply when switching from the inverter line voltage to utility line voltage after the line has been qualified. Transfers to and from battery operation shall not interfere with the operation of the other equipment in the intersection                                                                                                                                                                                                                                                                                                                                         |
| YES |  |  | <b>8.</b> The UPS shall have a user definable line qualify time. The user shall be able to set a time within the range of 3s-999s. the default line qualify time shall be 3 seconds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| YES |  |  | <b>9.</b> The UPS and all components shall operate without performance degradation over a temperature range of -40°C (-40°) to +74°C (+165°F) with a maximum load of 70% of rated output of the UPS inverter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| YES |  |  | <b>10.</b> The UPS Feedback level shall be tested and certified to Electrical Standards UL 1778 and CSA 107.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| YES |  |  | <b>11.</b> The UPS shall have surge protection compliant with IEEE/ANSI C.62.41 Cat A & B.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| YES |  |  | <b>12.</b> The UPS power and control connections shall be easily installed, replaced or removed by using easily removable cables for AC input, AC output, DC input, external transfer control/alarm and battery temperature sense <ul style="list-style-type: none"> <li>a. AC Connection<br/>The AC input and output hardwired connections shall be separate 3-position euro style terminal blocks mounted on a panel as part of the front of the UPS.</li> <li>b. DC Connection<br/>The DC connection shall be a recessed one-piece Gray Anderson style connector rated to handle the maximum DC current required by the inverter while running on batteries</li> <li>c. Temperature Probe Connection<br/>The battery temperature sense inputs shall be panel-mounted Telco style connector.</li> </ul> |
| YES |  |  | <b>13.</b> The UPS AC Input Circuit Breaker shall be equipped with a flush mounted AC input circuit breaker that protects both the UPS and the loads connected to the output. Should the AC Input breaker on the UPS trip, it shall allow the UPS to go to inverter mode to power the intersection off batteries. Should an overload condition still exist when the inverter is energized the inverter will revert to its internal electronic protection, preventing damage to the inverter due to the overload or short circuit condition, on the output                                                                                                                                                                                                                                                 |
| YES |  |  | <b>14.</b> The UPS AC Output Circuit Breaker shall not have an AC output circuit breaker or combination Input/Output breaker. An AC output breaker prevents the Inverter from powering the load from batteries when tripped                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| YES |  |  | <b>15.</b> The UPS Battery Circuit Breaker shall have a flush mounted Battery circuit breaker installed on the front panel of the UPS inverter module.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|-----|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |  |  | <b>16.</b> The UPS Overload Inverter Module must be able to shut down in order to protect against internal damage in the event of an overload at the output. The Inverter shall support an overload up to 110% for 2 minutes and then turn off the inverter output. The fault recovers when the overload is removed and line power returns. There shall not be an AC output circuit breaker.                                                                                                                                                                                                                                                                                                                                             |
| YES |  |  | <b>17.</b> The UPS AD Feedback shall prevent a malfunction feedback to the cabinet or from feeding back to the utility service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| YES |  |  | <b>18.</b> In the event of UPS failure Mode (inverted/charger or battery) or complete battery discharge, the internal power transfer relay shall revert to Normally Closed (de-energized) state and provide utility power to intersection when utility line power is available to the cabinet                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| YES |  |  | <b>19.</b> The UPS Automatic Shutdown shall initiate an automatic shutdown when battery output reaches 42.0VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| YES |  |  | <b>20.</b> The UPS shall be equipped with an integral system to prevent the battery from destructive discharge or overcharge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| YES |  |  | <b>21.</b> The UPS Destructive Discharge or overcharge shall be equipped with an integral system to prevent the battery from destructive discharge or overcharge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| YES |  |  | <b>22.</b> The UPS Battery Test Inverter Module shall be programmable to perform automatic battery tests at user defined intervals to meet specific requirements or manufacturer's recommendation. <ul style="list-style-type: none"> <li>i. Intervals are set in days between tests</li> <li>ii. Programmable start hour</li> <li>iii. Programmable test timeout range 6 minutes to 10 days 10 hours</li> <li>iv. Programmable test termination voltage</li> <li>v. Web browser to show battery test time remaining, elapsed time, error condition, last test completed date/time, and days until next test</li> <li>vi. During self-test the UPS Inverter Module shall identify a weak battery string and initiate an alarm</li> </ul> |
| YES |  |  | <b>23.</b> Scheduler – Time of Day Schedule (TOD) <ul style="list-style-type: none"> <li>a. The UPS shall provide a scheduler with settings programmable by the user</li> <li>b. The scheduler shall allow the user to program at least five (5) time spans with start and end times</li> <li>c. Each time span shall be selectable as to whether it is applicable All Days, Weekdays, or Weekends</li> <li>d. The scheduler shall allow the user to schedule operational modes as required, per intersection</li> <li>e. A dry contact relay shall be programmable to use a programmed time span to prevent a relay from being energized during the time span</li> </ul>                                                                |

|     |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |  |  | <p><b>24. Battery State of Health (BOH)</b></p> <p>a. The Battery State of Health (SOH) is a percentage estimate of the state of health of the battery. The UPS shall show the approximate SOH of the battery when discharges of greater than 20% are done during a battery test</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| YES |  |  | <p><b>25. Battery State of Health (BOH)</b></p> <p>a. The Battery State of Health (SOH) is a percentage estimate of the state of health of the battery. The UPS shall show the approximate SOH of the battery when discharges of greater than 20% are done during a battery test</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| YES |  |  | <p><b>26. User Configurable Alarms</b></p> <p>a. The UPS shall have at least 60 user configurable alarms. Each alarm shall be configurable as to:</p> <ol style="list-style-type: none"> <li>Enabled or disabled</li> <li>Alarm priority levels – Settable to Warning, Minor, Major and Critical</li> <li>Parameter – Customizable user value for filtering</li> <li>Custom Name</li> <li>Dry contact Relay – User can select which relay will be controlled by the alarm.</li> </ol> <p>b. Alarm Cut Off- If an alarm is triggered the user can select the alarm winddown and click, "Alarm Cut-Off" to cut off the alarm for the set period and the system will show the alarm(s) as "Acknowledged" and deactivate any assigned relays.</p> <p>c. Color severity – the alarm window background on the LCD and web browser interface shall be color coded with the highest active alarm severity level:</p> <ol style="list-style-type: none"> <li>LCD – No alarms/warning = Green; Minor – Yellow; Major/Critical = Red</li> <li>Web – No alarms/warning = Blue; Minor = Orange; Major/Critical = Red</li> </ol> |
| YES |  |  | <p><b>27. Custom Data and Custom Actions</b></p> <p>a. The UPS shall have the ability to capture custom data by either numeric or state value. These values can then be used in user created formulas to produce a numeric or Boolean output. The output can be used for reporting on for controlling dry contact relays by creating Custom Actions. In addition, counters and timers can be created to further custom data and actions</p> <ol style="list-style-type: none"> <li>Counters – an Up or Down counter can be created to count how many times an event has happened and drive a custom action</li> <li>Timers – the Delay Timer can be used with Custom Data to produce a programmable delay when a certain even happens. The Interval Timer can be used with Custom data to measure the time between two events</li> </ol>                                                                                                                                                                                                                                                                           |
| YES |  |  | <p><b>28. Optional Analog Digital Input Output (ADIO) Device</b></p> <p>b. An optional Analog Digital Input Output (ADIO) device can be connected to the UPS for external control of devices via additional dry contact relays or for monitoring current, DC volts, temperature, and digital input (contact closure). The ADIO communicated with the UPS via the CAN bus</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**E. TECHNICAL SPECIFICATIONS: AUTOMATIC VOLTAGE REGULATION (AVR) – BUCK/BOOST**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----|----|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | <b>1. AVR Functionality</b> <ol style="list-style-type: none"> <li>The UPS shall include AVR Functionality. The UPS shall be Double Buck/Double Boost (two steps of each) – Line-Interactive, True UPS</li> <li>The Double Buck/Double Boost mode shall have a minimum input range of 85 – 171 VAC</li> <li>There shall not be any user definable transfer set points for the buck or boost modes</li> <li>Whenever AVR mode is selected, the output of the system shall be regulated between 108-130 VAC. When the output of the system can no longer be maintained with this range, the UPS shall transfer to inverter or Backup Mode.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| YES |    |                          | <b>2. Battery Charger</b> <ol style="list-style-type: none"> <li>The UPS shall have an integral three (3) stage charger that is compatible with Gel and AGM battery topology. The charger shall be an intelligent charger with control systems that automatically incorporates bulk, absorption and float charging modes. Two stage chargers are not allowed.</li> <li>The integral intelligent charger shall use temperature compensation. The charging system shall compensate over a range of -100.0 – 0.0mV/°C/Cell (-55.5 – 0.0mV/°F/Cell). Temperature compensation shall occur during absorption and float modes A temperature probe which plugs into the front panel of the UPS shall be used to monitor the internal temperature of the batteries. The Temperature sensor shall be a minimum of 2 meters in length, external to the inverter/charger module and have a 3/8" lug for attaching to the negative terminal of the battery string.</li> <li>If the temperature probe fails or is not connected to the UPS, the charger shall still charge the batteries but to a maximum of 52.5VDC.</li> <li>The batteries shall not be recharged whenever the battery temperature exceeds 50°C (112°F)</li> <li>The recharge time for the batteries from "protective low-cutoff" to 80 percent or more of full charge capacity shall not exceed 8 hours if the charger is set to maximum. The UPS charger shall be capable of providing 15 amps at 54VDC.</li> </ol> |

**F. TECHNICAL SPECIFICATIONS: USER INTERFACE AND DISPLAYS**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                  |
|-----|----|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | <b>1.</b> The UPS inverter/charger unit shall include a multi-line backlit LCD display for viewing all status and configuration information. The screen shall be easily viewable in both bright sunlight and in darkness. The screen assembly shall be rotatable |

|     |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| YES |  |  | <p><b>2.</b> At a minimum the LCD Screen Layout and web pages can show any of the following active real time readings and information:</p> <ul style="list-style-type: none"> <li><b>a.</b> Operating mode (Line, Standby, Backup, Buck / Boost)</li> <li><b>b.</b> Utility input voltage</li> <li><b>c.</b> UPS output Voltage and Current</li> <li><b>d.</b> Battery Voltage, Temperature, SOH, SOC</li> <li><b>e.</b> Input Frequency</li> <li><b>f.</b> Output Power</li> <li><b>g.</b> Charger Voltage, Current, Mode</li> <li><b>h.</b> Battery Mode</li> <li><b>i.</b> Timer Relays delay remaining</li> <li><b>j.</b> IP Address</li> <li><b>k.</b> Accumulated output power in KW hours</li> <li><b>l.</b> Battery Runtime Remaining</li> <li><b>m.</b> Unit Serial Number</li> <li><b>n.</b> Unit Firmware Version</li> <li><b>o.</b> Any Alarms</li> </ul> <p>The Menu shortcut layout shall follow the web browser interface menu navigation and allow for full programmability of the UPS</p> |
| YES |  |  | <p><b>3.</b> The UPS shall be provided with an embedded web server for user configuration and management through a web browser interface without needing to install computer software</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| YES |  |  | <p><b>4.</b> The quick status area shall be menu accessible and show any active alarms</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| YES |  |  | <p><b>5.</b> The menu system shall include the following capabilities:</p> <ul style="list-style-type: none"> <li><b>a.</b> Dashboard – Controller and UPS Status</li> <li><b>b.</b> Controller – Comm setup, NTP, Users &amp; Security, Scheduler for TOD</li> <li><b>c.</b> System – UPS Status and Configuration</li> <li><b>d.</b> Modules – UPS Firmware upgrades</li> <li><b>e.</b> Alarms – Configure Alarms</li> <li><b>f.</b> Logs – Events, Alerts, Battery, Power Outage, and Performance Logs</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| YES |  |  | <p><b>6.</b> The UPS Minimum capabilities shall allow the user to do the following through the web browser:</p> <ul style="list-style-type: none"> <li><b>a.</b> View logs</li> <li><b>b.</b> Configure Network Parameters</li> <li><b>c.</b> Configure email</li> <li><b>d.</b> Adjust line qualify time</li> <li><b>e.</b> Configure dry contact relays</li> <li><b>f.</b> Configure alarms</li> <li><b>g.</b> Configure Time/Date, NTP</li> <li><b>h.</b> Configure Communications</li> <li><b>i.</b> Configure Users and Security</li> <li><b>j.</b> Controller and UPS firmware to be upgradable remotely via Ethernet</li> <li><b>k.</b> Configure battery settings</li> </ul>                                                                                                                                                                                                                                                                                                                       |

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|-----|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |  |  | <p><b>7.</b> The UPS Status LEDs shall have discrete LED indications on the front of the inverter/charger</p> <ul style="list-style-type: none"> <li><b>a.</b> Green Output LED shall be Solid ON any time that the output of the UPS is in Line or AVR (Buck/Boost) modes. When the UPS output is in Backup (inverter) mode the LED will flash On and Off.</li> <li><b>b.</b> Red LED shall be Solid On any time there is one or major critical active alarms</li> <li><b>c.</b> Yellow LED shall be Solid on any time there is one or more minor active alarms</li> </ul>                                                                                                                                                 |
| YES |  |  | <p><b>8.</b> The UPS shall maintain an event log containing a minimum of 1000 of the most recent events. The event log shall be downloadable as a csv file by web browser and exportable by USB port on the UPS. The log shall be date and time stamped. The most recent 300 events of the log shall be viewable by web browser and 25 by LCD. The vent log shall capture:</p> <ul style="list-style-type: none"> <li><b>a.</b> UPS system mode</li> <li><b>b.</b> Dry Contact Relay Status</li> <li><b>c.</b> AC Power Outage</li> <li><b>d.</b> Configuration Changes</li> <li><b>e.</b> Battery Mode</li> <li><b>f.</b> User Logon</li> <li><b>g.</b> Firmware Updates</li> <li><b>h.</b> Web Sessions</li> </ul>        |
| YES |  |  | <p><b>9.</b> The UPS shall maintain an alert log containing a minimum of 1000 of the most recent events stored in a "first in first out" (FIFO) buffer. The alert log shall be downloadable as a csv file by web browser and exportable by USB port on the UPS. The log shall be date and time stamped. The most recent 300 events of the log shall be viewable by web browser and 25 by LCD. The alert log shall capture all items</p>                                                                                                                                                                                                                                                                                     |
| YES |  |  | <p><b>10.</b> The UPS shall maintain a battery log containing a minimum of 1000 of the most recent events stored in a "first in first out" (FIFO) buffer. The battery log shall be downloadable as a csv file by web browser and exportable by USB port on the UPS. The log shall be date and time stamped. The most recent 300 events of the log shall be viewable by web browser and 25 by LCD. The batter log shall capture:</p> <ul style="list-style-type: none"> <li><b>a.</b> Duration</li> <li><b>b.</b> Battery Capacity</li> <li><b>c.</b> Ah Delivered</li> <li><b>d.</b> Change in SOC%</li> <li><b>e.</b> Starting SOH%</li> <li><b>f.</b> Change in SOH%</li> <li><b>g.</b> Batter Current Average</li> </ul> |
| YES |  |  | <p><b>11.</b> The UPS shall maintain a power outage log containing a minimum of 1000 of the most recent events stored in a "first in first out" (FIFO) buffer. The battery log shall be downloadable as a csv file by web browser and exportable by USB port on the UPS. The log shall be date and time stamped. The most recent 300 events of the log shall be viewable by web browser and 25 by LCD. The power outage log shall capture Start Time, End Time, and Duration.</p>                                                                                                                                                                                                                                           |

|     |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |  |  | <p><b>12.</b> The UPS shall be capable of recording up to 10 data logs each with up to 20 data signals. The data logs shall be downloadable as a csv file by web browser and exportable by USB port of the UPS. User can configure the interval between the samples within a range of 2 seconds to 3 hours. User can configure the number of samples to capture from a range of 60-3600. When the maximum number of samples has been captured the newest sample replaces the oldest. Data capture can run continuously or be triggered by an equation. The UPS shall create a preview chart that shows continuous feed of data of up to 30 samples, FIFO, viewable on web browser only.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| YES |  |  | <p><b>13.</b> The UPS shall have preconfigured performance logs that run continuously and automatically, viewable on a web browser. There shall be separate charts for Seconds, Minutes, Hours, and Days that shows the Average, Minimum and Maximum values for each sample. A daily log that has the Average, Minimum and Maximum values shall be logged and be downloadable as a CSV file by web browser. The signals to be monitored are:</p> <ul style="list-style-type: none"> <li>a. Controller Memory in Use</li> <li>b. CPU Usage</li> <li>c. AC Output Voltage</li> <li>d. Battery Current</li> <li>e. AC Output Current</li> <li>f. Battery Voltage</li> <li>g. AC Output Voltage</li> <li>h. AC Output Apparent Power</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| YES |  |  | <p><b>14.</b> The UPS shall keep track of the following</p> <ul style="list-style-type: none"> <li>a. The number of times that the unit was in Inverter, Buck, and Boost, logged separately since the last reset</li> <li>b. The accumulated number of hours and minutes that the unit has operated in Inverter, Buck, and Boost, logged separately since the last reset</li> <li>c. The total power consumed by the load in kWh</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| YES |  |  | <p><b>15.</b> The UPS shall provide the user six programmable dry relay contracts. Five (5) programmable and one (1) 48VDC relay contact for powering a DC fan. At a minimum, the programmable options shall be On Battery, Low Battery + No Line, Timer, and Alarms. The UPS shall also have three (3) input contracts pre-programmed for Battery Test, User Alarm, and AC Shutdown.</p> <ul style="list-style-type: none"> <li>a. Programmable relays shall be able to be triggered/driven by more than one condition</li> <li>b. Programmable relays shall be able to have their default state programmed to be energized (NO contacts closed) when not triggered/driven</li> <li>c. The relay contacts shall be made available on the front panel of the UPS via 6, 3 position plug in terminal blocks with screw down wiring connections.</li> <li>d. All relays shall have their own common and their own set of normally open (NO) and normally closer (NC) terminals. The terminals for each relay shall be oriented as NO-C-NC on the terminal block.</li> <li>e. The relay contacts shall be rated at a minimum of 1 amp @ 250VAC</li> <li>f. On Battery Relay Contact the dry relay contacts that are configured for "On Battery" shall only energize when the UPS is operating in Inverter Mode</li> </ul> |

|     |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |  |  | <b>16.</b> The UPS shall include timers that will energize the associated "Timer" dry relay contact after the user configured time has elapsed when the UPS is in inverter mode. The timer is started when the UPS enters Inverter Mode. The user shall be able to configure the timer to the required time. The timer shall have an adjustable range of 0-720 minutes. The user shall be able to create at least 10 user settable timers. |
| YES |  |  | <b>17.</b> The UPS shall have an adjustable low battery relay setting. This setting shall be adjustable so that the user can set the point at which the low battery relay contact is energized. The low battery setting shall be adjustable from 0-100%. Once energized, the Low Battery + No Line relay shall de-energize as soon as line power has been restored and qualified.                                                          |
| YES |  |  | <b>18.</b> The UPS shall have three optically isolated programmable user input contacts. The user input contacts shall be able to be programmed for Self-Test Start, User Alarm, and UPS Shutdown.                                                                                                                                                                                                                                         |
| YES |  |  | <b>19.</b> The UPS shall provide voltmeter standard probe input-jacks (+) and (-) to read the exact battery voltage at the inverter spot.                                                                                                                                                                                                                                                                                                  |

**G. TECHNICAL SPECIFICATIONS: COMMUNICATIONS**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                               |
|-----|----|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | <b>1.</b> The UPS shall have (2) internal Ethernet communication interface ports for user configuration and management. One of the ports shall be static with a manufacturer set IP address, and the other port set to DHCP. The Ethernet Ports shall be an RJ-45, EIA 568B Pin Out Connector |
| YES |    |                          | <b>2.</b> The UPS shall include remote monitoring & alarms transmission capabilities through the Ethernet RJ-45 IP Addressable Port, using SNMP v3 protocol.                                                                                                                                  |
| YES |    |                          | <b>3.</b> System shall have the capability of notifying Operations, Maintenance or RMC via e-mail of any alarms, user selectable:                                                                                                                                                             |
| YES |    |                          | <b>4.</b> Emails are to be held in a batch and released after the configured interval has elapsed. Interval can be set from 5-60 minutes. Interval timer starts after first alarm trigger. Email to include:                                                                                  |
| YES |    |                          | a. Subject line with filterable text and alarm counts                                                                                                                                                                                                                                         |
| YES |    |                          | b. Static title for filtering                                                                                                                                                                                                                                                                 |
| YES |    |                          | c. Configurable name of the controller                                                                                                                                                                                                                                                        |
| YES |    |                          | d. A Google map link to location (if setup)                                                                                                                                                                                                                                                   |
| YES |    |                          | e. Time and date of notification                                                                                                                                                                                                                                                              |
| YES |    |                          | f. List up to 10 active alarms, sorted by priority with an active alarm count indicator showing total active alarms                                                                                                                                                                           |
| YES |    |                          | g. List up to 10 cleared alarms, sorted by priority with a cleared alarm count indicator showing total cleared alarms                                                                                                                                                                         |
| YES |    |                          | h. All UPS configuration menus shall be accessible and programmable from the Ethernet Port                                                                                                                                                                                                    |

|     |  |  |                                                                                                                                                                                                                                                                        |
|-----|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |  |  | i. The UPS shall support TCP, UDP, and HTTP over IP protocol communications                                                                                                                                                                                            |
| YES |  |  | 5. The UPS shall be able to support a minimum of seven user accounts. Each account shall have five different user roles that could be assigned to it: administrator, account manager, operator, restricted operator, and guest, each with different permission levels. |
| YES |  |  | 6. The password length shall be up to 32 characters.                                                                                                                                                                                                                   |
| YES |  |  | 7. The UPS shall have a USB Type A connector for firmware upgrades and file management. The USB shall support:                                                                                                                                                         |
| YES |  |  | a. Exporting and importing UPS configuration to copy configuration to other units                                                                                                                                                                                      |
| YES |  |  | b. Exporting log files                                                                                                                                                                                                                                                 |
| YES |  |  | c. Firmware and software upgrades                                                                                                                                                                                                                                      |
| YES |  |  | d. Mouse and keyboard input                                                                                                                                                                                                                                            |
| YES |  |  | a. The UPS shall have a USB Type Mini B connector to soft shutdown of MegaTec protocol compliant client                                                                                                                                                                |
| YES |  |  | a. The UPS Shall have an RJ12 connector for CAN bus communications to ADIO interfaces and other devices                                                                                                                                                                |
| YES |  |  | a. SNTP (Simple Network Time Protocol) – The UPS shall have the ability to synchronize with a network or internet based time server                                                                                                                                    |
| YES |  |  | a. The UPS shall have the ability to synchronize to web browser.                                                                                                                                                                                                       |
| YES |  |  | b. Daylight Savings – the user shall be able to choose Standard time, US/Can Daylight Savings, or always Daylight Savings                                                                                                                                              |

#### H. TECHNICAL SPECIFICATIONS : Automatic Bypass Transfer Switch

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|----|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | 1. The UPS shall include a rack mounted Automatic/Manual Transfer Relay rated at 120VAC/30 amps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| YES |    |                          | 2. The Automatic Bypass Transfer Switch shall be combination automatic/manual bypass switch. Placing the bypass switch in the "Bypass" mode shall transfer the intersection load from the UPS output directly to commercial power. AC commercial power must still be available to the UPS input, allowing the UPS to keep the batteries charged. A UPS Supply Breaker shall be provided and located on the Bypass Switch, which allows the user to be able to manually shut off commercial power to the UPS input, allowing them to safely disconnect and remove the inverter. With the inverter turned off, the batteries can be safely disconnected from the system. |
| YES |    |                          | 3. The automatic Bypass Transfer Switch shall include a bypass indicator light that automatically notifies the user when the Manual bypass switch is in Bypass position. The indicator light shall be illuminated when in UPS mode.                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|     |  |  |                                                                                                                                                                                                                                                     |
|-----|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |  |  | 4. The manual bypass switch and the automatic transfer relay shall be integrated together within the Automatic Bypass Transfer Switch allowing the manual bypass switch to be rated at 10 Amps and to be integrated with the bypass indicator light |
| YES |  |  | 5. The Automatic Bypass Transfer Switch shall have terminal blocks capable of accepting #6 AWG wiring for the AC input and output with #10 AWG from the Automatic Bypass Transfer Switch to inverter/charger module.                                |

**I. TECHNICAL SPECIFICATIONS: Automatic Generator Transfer Switch**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----|----|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | 1. The UPS cabinet shall include a rack mounted Automatic Generator Transfer Switch rated at 120VAC/30 amps                                                                                                                                                                                                                                                                                                                      |
| YES |    |                          | 2. The Automatic Generator Transfer Switch shall be a combination automatic/manual generator switch. Placing the generator switch in the "Line" mode shall pass the utility power from the Line Input to Line Output. With the switch in "Gen" mode the transfer switch will automatically disconnect the utility and connect generator power to Line Output when the generator input voltage is approximately 120VAC or greater |

**J. TECHNICAL SPECIFICATIONS: Batteries**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|----|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | 1. The battery shall be virgin lead alloy, calcium based, extreme temperature float cycle, AGM (Absorbed Glass Mat) VRLA (Valve Regulated Lead Acid). Batteries designed for Cycle applications, such as Solar or deep cycle, are not acceptable. The Battery must be designed for Standby UPS applications. Individual batteries shall meet the following specifications: <ul style="list-style-type: none"> <li>a. Voltage Rating: 12V</li> <li>b. Amp-hour rating: 100 Ah, at the 20 hour rate, to 1.75 Volts per cell, minimum battery rating.</li> <li>c. Batteries shall be easily replaced and commercially available off the shelf</li> <li>d. Batteries shall provide 100% runtime capacity out-of-box. Each battery must meet its specification without the requirement of cycling upon initial installation and after the initial 24 hour top off charge</li> <li>e. Quantity: 4</li> </ul> |
| YES |    |                          | 2. Batteries used for the UPS shall consist of 4 batteries configured for a 48 VDC battery buss system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| YES |    |                          | 3. Batteries shall be certified to operate at extreme temperatures from - 40°C to +60°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| YES |    |                          | 4. An integral lifting handle shall be provided on the batteries for ease of removal/installation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|     |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |  |  | <p><b>5.</b> The battery cable assembly shall be a two part modular harness</p> <ul style="list-style-type: none"> <li>a. Part 1 shall be equipped with red (+) and black (-) cabling that can be permanently connected to the positive and negative posts of each battery with a ¼" ring terminal. Each red and black pair shall be terminated into a one-piece Anderson style Power Pole connector or equivalent.</li> <li>b. Part 2 shall be equipped with the mating Power pole style connector for the batteries and a one-piece, insulated gray Power Pole style connection to the inverter/charger unit. Harness shall be fully insulated and constructed to allow batteries to be quickly and easily connected in any order to ensure proper polarity and circuit configuration</li> <li>c. All battery cable wiring shall be UL Style 1015 CSA TEW all of proper gauge with respect to design current and with sufficient strand count for flexibility and ease of handling</li> <li>d. Battery terminals shall be converted and insulated with molded boots so as to prevent accidental shorting</li> </ul> |
|-----|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**K. TECHNICAL SPECIFICATIONS: Cabinet**

| YES | NO | NO & PROVIDE ALTERNATIVE |                                                                                                                                                                                                                              |
|-----|----|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |    |                          | <p><b>1.</b> The dimensions for the UPS cabinet shall be 48 inches in height, 22 inches in width, and 16.5 inches in depth.</p>                                                                                              |
| YES |    |                          | <p><b>2.</b> The inverter/charger unit shall be shelf or rack mounted on a standard EIA19" rack</p>                                                                                                                          |
| YES |    |                          | <p><b>3.</b> All interconnect wiring shall be provided and shall be UL Style 1015 CSA TEW</p>                                                                                                                                |
| YES |    |                          | <p><b>4.</b> The Automatic Transfer Switch shall be mounted on EIA 19" Rail or surface mount</p>                                                                                                                             |
| YES |    |                          | <p><b>5.</b> The Generator Transfer Switch shall be mounted on EIA 19" Rail or surface mounted</p>                                                                                                                           |
| YES |    |                          | <p><b>6.</b> The UPS equipment and batteries shall be easily replaced and shall not require any special tools for installation</p>                                                                                           |
| YES |    |                          | <p><b>7.</b> The UPS Inverter and batteries shall be hot swappable. There shall be no disruption to the Traffic Signal when removing the inverter or batteries for maintenance.</p>                                          |
| YES |    |                          | <p><b>8.</b> All necessary internal installation hardware (bolts, fasteners, washers, shelves, racks, etc.) shall be included</p>                                                                                            |
| YES |    |                          | <p><b>9.</b> The external cabinet shall not be capable of housing four batteries, inverter/charger power module, automatic transfer switch, control panels, wiring, wiring harnesses, and all other ancillary equipment.</p> |

|     |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |  |  | <p><b>10.</b> The UPS cabinet can be installed either as:</p> <ul style="list-style-type: none"> <li>a. Side-mounted to a Traffic Controller cabinet with no mounting brackets required.</li> <li>b. Pole-mounted cabinet with optional pole mount bracket kit.</li> <li>c. Free-standing base-mounted cabinet with optional riser for easy cable entrance.</li> </ul>                                                                                                                                                                                                          |
| YES |  |  | <p><b>11.</b> All external cabinets shall be NEMA 3R rated. The enclosure shall be made of 0.125 inch (5052-H32) aluminum</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| YES |  |  | <p><b>12.</b> The external cabinet shall be ventilated through the use of louvered vents, filter, and a minimum of one thermostatically controlled fan. The filter shall be the re-usable type and matching the dimensions of the louver with both located on the bottom half of the door. The cabinet fan shall be DC operated for longer reliability</p>                                                                                                                                                                                                                      |
| YES |  |  | <p><b>13.</b> All components, terminations, terminal blocks, relays, etc. shall be fully accessible</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| YES |  |  | <p><b>14.</b> Two battery shelves shall be located in the bottom half of the enclosure. The bottom batter shelf shall be removable. Air must be allowed to flow from the bottom of the cabinet and up the back internal wall. Neither the top battery shelf nor the Power Module shelf shall inhibit the airflow to the top of the cabinet.</p>                                                                                                                                                                                                                                 |
| YES |  |  | <p><b>15.</b> The cabinet shall include a 3-ponit locking system, including a Type 2 Corbin lock and utilize a handle with pad locking capability</p>                                                                                                                                                                                                                                                                                                                                                                                                                           |
| YES |  |  | <p><b>16.</b> the UPS cabinet shall include a generator plug compartment with a flush mounted and gasketed locking access door, which locks the generator power cable in place when connected. The lock shall be a Type 2 Corbin Lock. The generator compartment shall include a wired NEMA L5-15P Flanged inlet connector</p>                                                                                                                                                                                                                                                  |
| YES |  |  | <p><b>17.</b> The following extras may be required ("Shall have") or optional ("Optional"), read each item</p> <ul style="list-style-type: none"> <li>a. Shall have On-Battery mounted externally on the top of the cabinet that illuminated when the UPS is operating in Inverter Mode</li> <li>b. Optional 8" Pedestal/Riser to raise the cabinet above the pad.</li> <li>c. Optional Battery Heater Mats to increase battery capacity in cold climates</li> <li>d. Optional Internal lamp with door push-button switch to illuminate the interior of the cabinet.</li> </ul> |
| YES |  |  | <p><b>18.</b> The UPS manufacturer shall provide at no charge, a toll-free 24/7 technical support phone number. The toll-free phone number shall be included in the UPS manual.</p>                                                                                                                                                                                                                                                                                                                                                                                             |
| YES |  |  | <p><b>19.</b> There shall be a local distributor available to support the product</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| YES |  |  | <p><b>20.</b> Equipment manuals shall be provided for each UPS cabinet. Equipment manuals shall include installation, operation, programming, maintenance and troubleshooting</p>                                                                                                                                                                                                                                                                                                                                                                                               |
| YES |  |  | <p><b>21.</b> The UPS manufacturer shall provide at no charge, a toll-free 24/7 technical support phone number. The toll-free phone number shall be included in the UPS manual</p>                                                                                                                                                                                                                                                                                                                                                                                              |
| YES |  |  | <p>There shall be a local distributor available to support the product</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| YES |  |  | <p><b>22.</b> Equipment manuals shall be provided for each UPS cabinet. Equipment manuals shall include installation, operation, programming, maintenance and troubleshooting.</p>                                                                                                                                                                                                                                                                                                                                                                                              |

|     |  |  |                                                                                                                                                                                                           |
|-----|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YES |  |  | <b>23.</b> Each UPS shall be manufactured in accordance with a written manufacturer's Quality Assurance Program. The QA program shall include, as a minimum, specific design and production QA procedures |
| YES |  |  | <b>24.</b> The UPS Power Module manufacturer shall be ISO14001 and TL9000 certified                                                                                                                       |
| YES |  |  | <b>25.</b> The UPS shall be tested to comply with UL 1778, CSA 2.2 No. 107.3 and must bear the UL CSA mark                                                                                                |
| YES |  |  | <b>26.</b> Equipment manuals shall be provided for each UPS cabinet. Equipment manuals shall include installation, operation, programming, maintenance and troubleshooting                                |



an EnerSys® company

# SE48-2216

## 48" Outdoor BBS Enclosure



- Traffic grade aluminum enclosure protects battery backup power systems from outdoor elements
- Various mounting options (including pole-mount) provide a flexible solution for traffic and industrial applications
- Large sun shield reduces solar heat load inside the cabinet
- Thermostat controlled fan and louvered vents ensure reliable operation in high temperatures
- 180° stainless steel piano hinged door with two locking open positions makes internal component installation and maintenance easy and convenient
- Three-point latching mechanism with Type 2 lock (or optional Best® lock) for maximum security

**The Alpha® SE48-2216 Outdoor Enclosure is designed to protect rugged battery backup power system components from harsh outdoor elements in critical traffic, ITS, telecom and industrial applications.**

The rugged enclosure is made of 0.125" aluminum and designed to easily accommodate an Alpha uninterruptible power supply (UPS) 350-2000W power module, Alpha® transfer switches, and up to four AlphaCell® 195XTV, 240XTV, 3.5HP or 4.0HP batteries with room for additional components that may be required for your application. The SE48-2216 enclosure is an outdoor rated (NEMA 3R) enclosure. Features include: stainless steel door handle, integrated lock and latch, integrated document holder, optional battery slide out trays and an angled generator plug with water tight generator door (generator plug option). Additional options and accessories are available (see listing on reverse).

Best®, is a registered trademark of Best Access Solutions, Inc.

# SE48-2216 48" Outdoor BBS Enclosure

Consult your sales representative for P/N configurations

| Mechanical              |                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Dimensions:</b>      | <b>mm:</b> 1220H x 559W x 419D<br><b>inches:</b> 48H x 22W x 16.5D                                      |
| <b>Weight:</b>          | 34kg (75lbs)                                                                                            |
| <b>Construction:</b>    | High strength corrosion resistant aluminum                                                              |
| <b>Finish:</b>          | Natural aluminum                                                                                        |
| <b>Equipment Space:</b> | 11RU space (without generator inlet) with two (2) battery shelves                                       |
| <b>Equipment Rails:</b> | EIA standard 19" (vertical)                                                                             |
| <b>Cable Entrance:</b>  | Bottom of enclosure: 1 x 76mm (3") dia. knock-out                                                       |
| Hardware                |                                                                                                         |
| <b>Hinge Type:</b>      | Stainless steel piano hinge                                                                             |
| <b>Door Prop:</b>       | Aluminum rod, 2 locking open positions                                                                  |
| <b>Handle:</b>          | Stainless steel handle with padlock fitting for extended life and improved look                         |
| <b>Door Latch:</b>      | 3 point latch with integrated Corbin Russwin® Type 2 lock (or optional Best® lock) for maximum security |
| HVAC                    |                                                                                                         |
| <b>Cooling:</b>         | Thermostat controlled 48VDC fan, 100 cfm or better, ON at 49°C (120°F) Off at 32°C (89°F)               |
| <b>Ventilation:</b>     | Door installed louvers                                                                                  |
| Installation            |                                                                                                         |
| <b>Access:</b>          | Removable bottom shelf for easy wiring access                                                           |

| Maintenance                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Door installed louver:</b>                                                                                                                                                                                                                                                                                                                                                         | Equipped with washable filter                                                                                                                        |
| <b>Other:</b>                                                                                                                                                                                                                                                                                                                                                                         | Bug screen protected top vent                                                                                                                        |
| Enclosure Options                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                      |
| <b>Mounting:</b>                                                                                                                                                                                                                                                                                                                                                                      | Side mount (standard) - designed to mount to the side of most traffic enclosure cabinets<br>Ground mount kit (optional)<br>Pole mount kit (optional) |
| System Specifications (as shown)                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• 2 optional battery slide out trays with 4x AlphaCell 240XTV batteries</li> <li>• FXM1100 UPS</li> <li>• Universal automatic transfer switch</li> <li>• Universal generator transfer switch</li> </ul>                                                                                                                                        |                                                                                                                                                      |
| System Options                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• Generator support: locking generator access door and L5-30 F1 plug</li> <li>• Tamper switch</li> <li>• Tilt switch</li> <li>• AlphaGuard™ battery balancer</li> <li>• Door activated interior light</li> <li>• Battery heater mats</li> <li>• "On Battery" indicator light</li> <li>• Remote Battery Monitoring System(RBMS) Plus</li> </ul> |                                                                                                                                                      |
| Agency Compliance                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                      |
| <b>CSA/UL, CE:</b>                                                                                                                                                                                                                                                                                                                                                                    | UL50E/C22.2 No.94                                                                                                                                    |
| <b>NEMA Rating:</b>                                                                                                                                                                                                                                                                                                                                                                   | 3R                                                                                                                                                   |

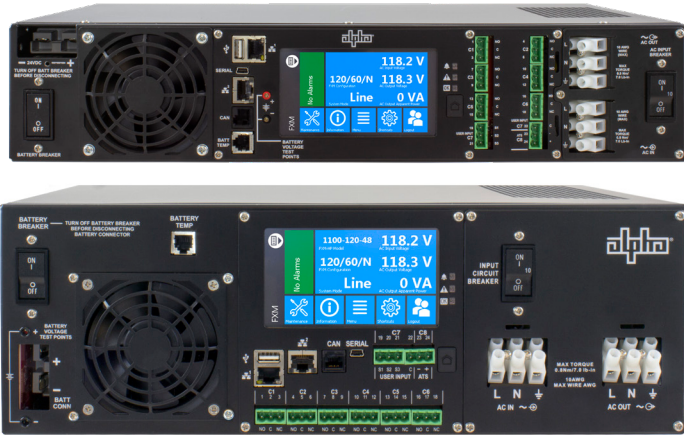




an EnerSys company

# FXM HP

## Rugged UPS Module



- 650, 1100, 2000W/VA UPS designed to operate in extreme environments and provide maximum flexibility
- Advanced next-generation control and monitoring platform with high resolution color touchscreen LCD display with advanced local UI
- Built-in data loggers to monitor performance logs, user configurable alarms and advanced equation editing for custom data and actions
- Integrated USB host for local firmware upgrades, configuration updates, backup, restoration and cloning
- Wide range Automatic Voltage Regulation (AVR) lengthens battery life by providing protection without transferring to backup mode during voltage surge or sag
- Independently programmable control and reporting dry contacts allow monitoring and controlling of key functions

### The FXM HP continues Alpha's longstanding excellence in Battery Backup Systems by ensuring equipment in critical applications remains protected from power disturbances and outages.

The FXM HP brings a refreshed look, increased processor horsepower, advanced security and configurability to the proven FXM outdoor family. Colored LCD touchscreen display provides access to multiple configurable tabs for quick system status, overview and configuration without the need of a laptop.

FXM HP includes multiple communication ports including two Ethernet connections to permit simultaneous local craft access as well as permanent LAN/WAN connectivity. USB port provides advanced file management capabilities including firmware upgrades and system configuration management. A USB key may also be used to quickly backup and restore site configuration settings and data logs. Environmental conditions and other equipment can be monitored via a single IP interface via CAN port using Alpha Analog Digital Input Output (ADIO) devices.

Enhanced security using modern encryption technology ensures proper authentication and privacy for remote connection with the UPS. Additional security layer is offered by central server authentication and authorization.

# FXM HP Rugged UPS Module

07/2019

| Electrical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                            |                            |                                                                                                               |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------|--------------|--------------------------|-----------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------|--------------------------|--------------|----------------------------|-----------------------------------------------------|--------------|--|------|--|--|
| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            | FXM-HP<br>650-24<br>120Vac |                                                                                                               | FXM-HP<br>650-48<br>120Vac  |              | FXM-HP<br>1100<br>120Vac |                                                     | FXM-HP<br>2000<br>120Vac |                                                                                                                                                            | FXM-HP 650-24<br>230Vac                                   |                                               | FXM-HP<br>1100<br>230Vac |              | FXM-HP<br>2000<br>230Vac   |                                                     |              |  |      |  |  |
| Input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Input Voltage Range in Line Mode (Vac ±2V) |                            | 85-171                                                                                                        |                             |              |                          |                                                     | 85-150                   |                                                                                                                                                            | 153 - 322                                                 |                                               |                          |              |                            |                                                     |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Nominal Frequency (Hz)                     |                            | 50Hz or 60Hz (Autodetect Frequency is the default configuration, can also be manually configured.)            |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Frequency Tolerance in Line Mode           |                            | ±5%                                                                                                           |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Maximum Input Current (A)                  |                            | 8                                                                                                             |                             | 10.5         |                          | 15                                                  |                          | 20                                                                                                                                                         |                                                           | 4.4                                           |                          | 8            |                            | 12                                                  |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Input Breaker Rating (A)                   |                            | 10                                                                                                            |                             | 15           |                          | 20                                                  |                          | 25                                                                                                                                                         |                                                           | 5.5                                           |                          | 10           |                            | 15                                                  |              |  |      |  |  |
| Output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Output Voltage Setting (Vac)               |                            | 120                                                                                                           |                             |              |                          |                                                     | 210/220/230/240          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | % Regulation                               |                            | Line Mode: ±10%, Inverter Mode: ±2%                                                                           |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rated Power (W/VA)                         |                            | 650                                                                                                           |                             |              | 1100                     |                                                     |                          | 2000                                                                                                                                                       |                                                           |                                               | 650                      |              |                            | 1100                                                |              |  | 2000 |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Frequency (Hz)                             |                            | Same as Input Frequency                                                                                       |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Battery String Voltage (Vdc)               |                            | 24                                                                                                            |                             | 48           |                          |                                                     |                          |                                                                                                                                                            | 24                                                        |                                               | 48                       |              |                            |                                                     |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Maximum Charging Current (A)               |                            | 10                                                                                                            |                             |              |                          | 15                                                  |                          |                                                                                                                                                            |                                                           | 10                                            |                          | 15           |                            |                                                     |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Battery Breaker Rating (A)                 |                            | 80                                                                                                            |                             | 50           |                          | 80                                                  |                          | 80                                                                                                                                                         |                                                           | 80                                            |                          | 50           |                            | 80                                                  |              |  |      |  |  |
| Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Line Mode Efficiency*                      |                            | >98%                                                                                                          |                             | >97.5%       |                          | >98%                                                |                          | >97.5%                                                                                                                                                     |                                                           | >98%                                          |                          | >97%         |                            | >97%                                                |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Inverter Mode Efficiency**                 |                            | >75%                                                                                                          |                             | >85%         |                          |                                                     |                          |                                                                                                                                                            | >75%                                                      |                                               | >85%                     |              |                            |                                                     |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Typical Transfer Time                      |                            | 5ms                                                                                                           |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Voltage THD (%)                            |                            | <3%                                                                                                           |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          | <3.5%        |                            | <5%                                                 |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Waveform                                   |                            | Pure Sine Wave                                                                                                |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Load Crest Factor                          |                            | 3:1 (load dependent)                                                                                          |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Environmental                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |                            |                                                                                                               |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Operating Temperature Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            |                            | -40 to 74 °C                                                                                                  |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Full Load Operating Temperature Range***                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                            | -40 to 55 °C @60Hz<br>-40 to 50 °C @50Hz                                                                      |                             | -40 to 55 °C |                          |                                                     | -40 to 50 °C             |                                                                                                                                                            |                                                           | -40 to 55 °C @230/240V                        |                          |              | -40 to 55 °C @220/230/240V |                                                     | -40 to 55 °C |  |      |  |  |
| Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                            | Up to 95% (non condensing)                                                                                    |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Altitude****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |                            | Up to 3700m (12,000ft)                                                                                        |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Audible Noise*****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                            |                            | 45dBa @ 1 meter (39in)                                                                                        |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| BTU/Hr (Inverter Mode)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            |                            | 700                                                                                                           |                             | 375          |                          | 640                                                 |                          | 1235                                                                                                                                                       |                                                           | 845                                           |                          | 675          |                            | 1185                                                |              |  |      |  |  |
| Mechanical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                            |                            |                                                                                                               |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                            |                            | in: 3.47H x 17W x 9D<br>mm: 89H x 432W x 229D                                                                 |                             |              |                          | in: 5.22H x 15.5W x 8.75D<br>mm: 133H x 394W x 222D |                          |                                                                                                                                                            |                                                           | in: 3.47H x 17W x 9D<br>mm: 89H x 432W x 229D |                          |              |                            | in: 5.22H x 15.5W x 8.75D<br>mm: 133H x 394W x 222D |              |  |      |  |  |
| Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            |                            | 11.3kg (25lbs)                                                                                                |                             |              |                          | 14kg (31lbs)                                        |                          | 18kg (40lbs)                                                                                                                                               |                                                           | 11.3kg (25lbs)                                |                          | 14kg (31lbs) |                            | 18kg (40lbs)                                        |              |  |      |  |  |
| Mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                            | Shelf, rack or wall; horizontal or vertical mount                                                             |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |                            | Forced air (fan cooled) with optional external fan cooling for enclosure                                      |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Display                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |                            | Full graphic LCD, 480x272 pixels, Resistive touch screen                                                      |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Communication Ports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |                            | • 2 x RJ45: Ethernet<br>• 1 x RJ11: Battery Temperature Compensation<br>• 1 x RJ12: for Alpha CAN devices     |                             |              |                          |                                                     |                          | • 1 x USB-A: For upgrades or file management via a standard USB flash drive<br>• 1 x USB-Mini B: For soft shutdown using MegaTec protocol complaint client |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Power Connectors Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |                            | Hardwired In/Out*****                                                                                         |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Indicators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                            |                            | Solid Green: Line Mode, Flashing Green: Inverter mode, Yellow/Amber: Minor alarms, Red: Major/Critical alarms |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Dry Contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |                            | • C1 to C5 Programmable NO/NC (250Vac, 1A)<br>• 3 user inputs                                                 |                             |              |                          |                                                     |                          | • C6: 24Vdc @ 500mA, C8 24Vdc/10mA(FXM 650-24)<br>• C6: 48Vdc @ 500mA, C8: 48Vdc/10mA (FXM 650-48,1100,2000)                                               |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Agency Compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                            |                                                                                                               |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| Electrical Safety: UL 1778, 60950-1, CAN/CSA-C22.2 No. 107.3-14                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                            |                            |                                                                                                               | Marks: 120: cSAsus, 230: CE |              |                          |                                                     | RoHS: Yes                |                                                                                                                                                            | EMC: FCC CFR47 Part 15, Class A, CSPPR22, EN55022 Level A |                                               |                          |              |                            |                                                     |              |  |      |  |  |
| *At nominal AC Input, full load and at 25 °C ambient temperature, ** At nominal DC Input, full load and at 25 °C ambient temperature, *** Derates 1.4% per °C past listed temperature range until a maximum of 74 °C, Refer to manual for nonlisted voltage settings.<br>**** Derates 2 °C per 300m (1000ft) above 1400m(4500ft), ***** Measured at 25 °C ambient temperature, ***** FXM 1100-48 120Vac model also available in Hardwired Input/ Output and Dual 5-15R Output OR IEC Input/Output. |                                            |                            |                                                                                                               |                             |              |                          |                                                     |                          |                                                                                                                                                            |                                                           |                                               |                          |              |                            |                                                     |              |  |      |  |  |



an EnerSys® company

# Alpha Transfer Switches

## Outdoor Solutions



### Alpha® Universal Automatic Transfer Switch (UATS)

- Fail safe and manual operation ensures critical load is protected
- Optional dry contact for monitoring transfer switch status: know exactly what your transfer switch is doing
- Auxiliary output can be used to power items such as battery heater mats eliminating the need for additional complex wiring

### Alpha® Universal Generator Transfer Switch (UGTS)

- Automatic and manual operation for complete control over generator transfers
- Optional dry contact for generator transfer switch monitoring

**The UATS ensures continuous operation of your systems either with conditioned line power, battery backup power or power direct from the line should the UPS require maintenance.**

**The UGTS automatically transfers the input to the UPS from the utility line to a portable AC generator. The UGTS allows the generator to recharge the batteries and power your systems during extended power outages.**

For a full set of configurations, see the UATS and UGTS manual

Alpha® Transfer Switches

| Electrical            |                                              |
|-----------------------|----------------------------------------------|
| North America         |                                              |
| Input Voltage:        | 120V nominal, 102V minimum for auto transfer |
| Output Voltage:       | Matches Input                                |
| International         |                                              |
| Input Voltage Range:  | 230V nominal, 196V minimum for auto transfer |
| Output Voltage Range: | Matches Input                                |
| Power Module          |                                              |
| North America         |                                              |
| Nominal Voltage:      | 120V                                         |
| Nominal Frequency:    | 60Hz                                         |
| Input Current:        | 30A                                          |
| Output Current:       | 30A                                          |
| Output Power at 40°C: | 3600W/VA                                     |
| International         |                                              |
| Nominal Voltage:      | 230V                                         |
| Nominal Frequency:    | 50Hz                                         |
| Input Current:        | 16A                                          |
| Output Current:       | 16A                                          |
| Output Power at 40°C: | 3600W/VA                                     |

| Mechanical                                                                                                                                                                                                       |                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions:                                                                                                                                                                                                      | mm: 81H x 135W x 152D<br>in: 3.25H x 5.3W x 6.0D                                                                                                                  |
| Weight:                                                                                                                                                                                                          | 1.6kg (3.5lbs)                                                                                                                                                    |
| Unit Weight:                                                                                                                                                                                                     | 11kg (25lbs)                                                                                                                                                      |
| Mounting Options Available:                                                                                                                                                                                      | Shelf, Wall, 19", 23" or Single Side Rack Mount                                                                                                                   |
| Performance / Features                                                                                                                                                                                           |                                                                                                                                                                   |
| <ul style="list-style-type: none"><li>• Generator/line manual selector</li><li>• Easy installation convenience outlet (UATS only)</li><li>• Spare fuse and mount</li></ul>                                       |                                                                                                                                                                   |
| Environmental                                                                                                                                                                                                    |                                                                                                                                                                   |
| Operating Temperature:                                                                                                                                                                                           | -40 to 74°C (-40 to 165°C)                                                                                                                                        |
| Options:                                                                                                                                                                                                         | <ul style="list-style-type: none"><li>• Dry contact indication status mode</li><li>• Wall/Shelf mounting bracket</li><li>• Single side mounting bracket</li></ul> |
| Agency Compliance                                                                                                                                                                                                |                                                                                                                                                                   |
| CAN/CSA C22.2 No.107.3-14<br>UL1778 5th Edition Uninterruptible power systems<br>CE for 230VAC models<br>EMC: Not applicable. As component type for FXM UPS family and Micro UPS family (when enclosed in a box) |                                                                                                                                                                   |
|                                                                                                                                 |                                                                                                                                                                   |

| Part Numbers                                       |                                                    |                                           |
|----------------------------------------------------|----------------------------------------------------|-------------------------------------------|
| UATS                                               | UGTS                                               | UATS/UGTS Standalone Mounting Options     |
| 020-165-21 UATS, 120V, 30A                         | 020-166-21 UGTS, 120V, 30A                         | 740-756-21 Shelf/Wall Bracket             |
| 020-165-22 UATS, 120V, 30A with Auxiliary Contacts | 020-166-22 UGTS, 120V, 30A with Auxiliary Contacts | 593-510-R4 Single Side Rack Mount Bracket |
| 020-165-31 UATS, 230V, 16A                         | 020-166-31 UGTS, 230V, 16A                         |                                           |
| 020-165-32 UATS, 230V, 16A with Auxiliary Contacts | 020-166-32 UGTS, 230V, 16A with Auxiliary Contacts |                                           |



Universal Automatic Transfer Switch (UATS-far right) and Universal Generator Transfer Switch (UGTS-center) shown with surge protection (TVSS-left) in a 19" rack mount bracket (23" rack mount bracket also available). Contact your sales representative for configured part numbers available from the factory



# AlphaCell™ XTV

## AGM Top-Terminal Batteries



*Your Power Solutions Partner*

- Extreme temperature Absorbed Glass Mat (AGM) technology
- Superior cold temperature performance for outdoor applications
- Longer runtimes help increase network reliability
- Multiple models provide options for all network architectures
- Power density gains allow more runtime from smaller sized battery
- Extended service life for non-temperature controlled outdoor enclosures
- Full 5-year replacement warranty\*



**The AlphaCell XTV Battery line is specifically designed for extreme outdoor temperature applications. It's virgin lead-alloy grids minimize corrosion and maximize life expectancy.** Patented Computerized Charge/Discharge System (CCDS) provides 100% out-of-box runtime capacity. Strategic global manufacturing and distribution locations available with non-spillable transportation ratings. Optimized for remote advanced status monitoring.

\*When used with Alpha approved power supplies and enclosures in USA and Canada. For other regions see manual for details



## AlphaCell XTV Extreme Temperature Batteries

| NOMINAL SPECIFICATIONS                                    |                                                                                                                               |                                                         |                           |                           |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------|---------------------------|
| Battery Models                                            | 100XTV                                                                                                                        | 150XTV                                                  | 195XTV                    | 240XTV                    |
| P/N                                                       | 1810226                                                                                                                       | 1810227                                                 | 1810228                   | 1810229                   |
| Operating Temperature Range (w/ Temperature Compensation) | -40 to 60°C / -40 to 140°F (charger temperature compensation @ $\pm 3.3\text{mVpc}$ per °C)                                   |                                                         |                           |                           |
| Storage Temperature                                       | -10 to 40°C (14 to 104°F)                                                                                                     | -10 to 40°C (4 to 104°F)                                | -10 to 40°C (14 to 104°F) | -10 to 40°C (14 to 104°F) |
| Self Discharge                                            | Battery can be stored up to 12 months at 25°C (77°F). Higher temperatures during storage will require more frequent recharge. |                                                         |                           |                           |
| Voltage Per Unit                                          | 12V                                                                                                                           | 12V                                                     | 12V                       | 12V                       |
| Float Charge Voltage                                      | 13.5 to 13.8 Vdc average per 12V unit at 25°C (77°F)                                                                          |                                                         |                           |                           |
| Refresh/Boost Charging Voltage                            | 14.4 to 15.0 Vdc average 12V unit at 25°C (77°F)                                                                              |                                                         |                           |                           |
| Maximum AC Ripple (Charger)                               | 0.5% RMS or 1.5% of float recommended for best results. Maximum voltage allowed = 4% P/P                                      |                                                         |                           |                           |
| Terminal Type                                             | Threaded alloy insert terminal to accept M6 x 12mm bolt                                                                       | Threaded alloy insert terminal to accept M6 x 20mm bolt |                           |                           |
| Terminal Hardware Torque                                  | 13.6NM / 120in-lbs                                                                                                            | 13.6NM / 120in-lbs                                      | 13.6NM / 120in-lbs        | 13.6NM / 120in-lbs        |
| Case Sizes                                                | 22NF                                                                                                                          | 24                                                      | 27                        | 31                        |
| Dimensions                                                | mm                                                                                                                            | 207H x 228L x 138W                                      | 214H x 275L x 168W        | 214H x 322L x 169W        |
|                                                           | inches                                                                                                                        | 8.17H x 9.01L x 5.46W                                   | 8.44H x 10.85L x 6.65W    | 8.43H x 12.71L x 6.67W    |
| Weight Approximate                                        | 17.7kg (39lbs)                                                                                                                | 25.4kg (56lbs)                                          | 30.5kg (67lbs)            | 32kg (75lbs)              |
| Runtime Rating 25A (@ 25°C/77°F to 1.75Vpc)               | 100 minutes                                                                                                                   | 150 minutes                                             | 195 minutes               | 240 minutes               |
| Amp Hour Capacity 20Hr Rate (@ 25°C/77°F to 1.75Vpc)      | 56Ah                                                                                                                          | 80Ah                                                    | 100Ah                     | 112Ah                     |
| Maximum Discharge Current                                 | 300A                                                                                                                          | 800A                                                    | 800A                      | 850A                      |
| Short Circuit Current                                     | 1450A                                                                                                                         | 1900A                                                   | 2250A                     | 2650A                     |
| Impedance 60Hz (approximate)                              | 0.005Ω                                                                                                                        | 0.0045Ω                                                 | 0.0039Ω                   | 0.0034Ω                   |
| Conductance Range Fully Charged New Battery (@ 25°C/77°F) | 700 - 800                                                                                                                     | 900 - 1100                                              | 1050 - 1250               | 1250 - 1550               |

Terminal hardware included with every battery

| CONSTANT CURRENT NOMINAL RATINGS IN AMPS (@ 25°C / 77°F TO 1.75V PER CELL) |      |      |      |      |      |      |      |      |     |     |
|----------------------------------------------------------------------------|------|------|------|------|------|------|------|------|-----|-----|
| Discharge Time (Hours)                                                     | 1    | 2    | 3    | 4    | 5    | 6    | 8    | 10   | 12  | 20  |
| 100XTV                                                                     | 39.4 | 22.1 | 15.8 | 12.4 | 10.3 | 8.7  | 6.7  | 5.4  | 4.6 | 2.8 |
| 150XTV                                                                     | 53.0 | 30.6 | 21.6 | 16.8 | 13.9 | 11.9 | 9.3  | 7.7  | 6.5 | 4.0 |
| 195XTV                                                                     | 65.5 | 37.6 | 26.9 | 21.0 | 17.3 | 14.7 | 11.3 | 9.4  | 7.9 | 5.0 |
| 240XTV                                                                     | 81.7 | 45.5 | 32.1 | 25   | 19.8 | 16.6 | 13   | 10.5 | 9   | 5.6 |

| ESTIMATED RUNTIME MINUTES USING XM3-918HP (DEDUCT 4-6% FOR LEGACY XM POWER SUPPLIES) |     |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------------------------------------------------------------------------|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 90VAC @                                                                              | 4A  |      |      |      | 8A  |     |     |     | 12A |     |     |     | 18A |     |     |     |
| XTV Models                                                                           | 100 | 150  | 195  | 240  | 100 | 150 | 195 | 240 | 100 | 150 | 195 | 240 | 100 | 150 | 195 | 240 |
| 3 Batteries                                                                          | 280 | 401  | 506  | 581  | 133 | 190 | 245 | 289 | 81  | 117 | 153 | 188 | 47  | 69  | 92  | 118 |
| 6 Batteries                                                                          | 597 | 869  | 1083 | 1240 | 298 | 427 | 538 | 617 | 188 | 269 | 344 | 399 | 113 | 163 | 211 | 251 |
| 9 Batteries                                                                          | 914 | 1349 | 1673 | 1927 | 465 | 672 | 841 | 961 | 300 | 430 | 542 | 621 | 185 | 264 | 337 | 391 |

| ESTIMATED RUNTIME MINUTES USING XM3-624HP (DEDUCT 4-6% FOR LEGACY XM, VMX, AND GMX POWER SUPPLIES) |      |      |      |      |     |     |      |      |     |     |     |     |     |     |     |     |
|----------------------------------------------------------------------------------------------------|------|------|------|------|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 60VAC @                                                                                            | 4A   |      |      |      | 8A  |     |      |      | 12A |     |     |     | 18A |     |     |     |
| XTV Models                                                                                         | 100  | 150  | 195  | 240  | 100 | 150 | 195  | 240  | 100 | 150 | 195 | 240 | 100 | 150 | 195 | 240 |
| 3 Batteries                                                                                        | 416  | 599  | 751  | 858  | 203 | 290 | 369  | 427  | 126 | 181 | 234 | 276 | 74  | 108 | 142 | 175 |
| 6 Batteries                                                                                        | 869  | 1280 | 1588 | 1828 | 441 | 637 | 797  | 912  | 284 | 407 | 513 | 589 | 174 | 249 | 319 | 371 |
| 9 Batteries                                                                                        | 1321 | 1941 | 2441 | 2832 | 681 | 995 | 1237 | 1419 | 444 | 661 | 803 | 918 | 278 | 398 | 503 | 577 |

Based on .92 cable plant factor @ 25°C / 77°F

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#0470133-00 Rev D 09/2017

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