



August 31st, 2023

Quote #: 30kVA eXM UPS with Installation

END USER:

Mount Diablo Unified School District
1936 Carlotta Dr.
Concord, CA 94519

IN CARE OF RESELLER:

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CDW-G

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We are pleased to provide our quotation for the following Vertiv products and services:

Liebert EXM Single Module UPS System each consisting of the following: One (1) 30kVA Nameplate Liebert EXM UPS, model 47SA030DACM0ZTA, with the following features:

- System Input Voltage of 208/120V, 3 Phase, 4 wire plus ground
- System Output Voltage of 208/120V, 3 Phase, 4 wire plus ground
- Fixed Capacity 30kVA UPS System
- 208V Native Output Voltage
- Single Input Configuration
- One (1) IntelliSlot Unity Dual Protocol Card; P/N: IS-UNITY-DP; Monitoring and configuration of Vertiv products and environmental sensors through stand-alone Web UI or integration with Trellis™, Liebert Nform, LIFE™ Services. Supports third-party management systems using SNMP, Modbus or BACnet.
- SNMP Communication
- One (1) IS-RELAY Relay Contact Card(s)
- Seismic anchor kits included for Liebert EXM Main Unit
- Transformer-Free Architecture - Efficiency up to 95% in double conversion mode
- Unity Power Factor Rating - Delivers more usable power per kVA
- Load Power Factor Support - Supports loads 0.5 lagging to unity without derating
- Energy Optimization Mode (Eco-Mode)
- 65kAIC Rating - Provides interrupting rating and labeling of 65kA

- Active Power Factor Corrected IGBT Input Converter
- PWM transistorized (IGBT) inverter
- Continuous Duty Static Bypass Switch
- Input Contacts - Dry contacts are available for functions including monitoring external breakers, on-generator signal, and other functions
- Output Contacts - Dry contacts are available for functions including a permissive signal to maintenance bypass SKRU, to trip external breakers, and other functions
- Generator Load Control - Suppresses battery charging reducing power demand by an external signal. Shifts unit from Eco Mode to double conversion (if applicable), and synchronizes the inverter output with the bypass
- Automatic retransfer - Provides return to inverter power after an overload
- DSP based controls - Provides digital control of power conversion and system operation
- Backlit LCD display - Monitors power conversion, UPS operation and utility conditions. Deviations are logged for troubleshooting
- Temperature-Compensated Charging/Battery Load Test
- Top-and-bottom-entry cable access
- Front only service access
- Local Emergency Power Off (EPO)
- LIFE™ Services for the 1st year
- IP 20 enclosure
- Casters and leveling feet
- UL and cUL Listed to UL Standard 1778 5th Edition
- 13 min,1 x Internal String of ENERSYS HX205-FR Batteries

The solution includes **One (1) Maintenance Bypass Cabinet(s), model 47MBD32CC0R1UOX** with the following features:

- 3 Switching Devices (BIB, MBB, MIB)
- 150 Amp Breaker Trip Rating
- Key Interlock (SKRU)
- Cabinet Mounted Right Attached to Module with connecting cables factory supplied
- 200 MM - 7.9 inches Frame Size
- Top or Side Access required for MBC Installation.
- Seismic Anchor Kits Included for Maintenance Bypass
- Front Access service design

The following Startup Services are provided:

- Startup Services 7/24

The following UPS Service Programs are provided:

- Essential Service
- 1 Years
- (1) No. Of Years for Service Contract

The following MBC Service Programs are provided:

- MBC Maintenance Plan

Discounted UPS Price \$ 38,654.66 X 1 \$ 38,654.66

Contract: Sourcewell 081419-CDW Tech Catalog (081419#CDW)

EQUIPMENT SPECIFICATIONS

CPI ZETAFRAME SERVER CABINET

- 45U, 800mm wide, 1200mm deep, Single Front & Split Read Doors, Top Panel w/ Brush-Sealed Access Holes, Solid Side Panels (Both Sides), No Bottom Panel, Air Dam Kit w/ Bristles, Color=Black, Standard Pallet.
- Includes Leveling Feet, Caster Wheels, Baying Kit, and Anchor Brackets

ADDITIONAL CABINET ACCESSORIES

- Finger Cable Manager (Short Finger / 3 cabinets)
- Finger Cable Manager (Long Finger / 1 cabinet)
- Cable Lashing Panel 4.5" (3 Cabinets)
- Cable Lashing Panel 7.0" (1 Cabinet)
- Full Height PDU Bracket, Dual
- Front-to-Rear Cable Manager
- Snap-In Filler Panels (1U) 1 Box (50 Each)

VERTIV VERTICAL SWITCHED PDU

- Input: L21-30P
- Output: (6) C19, (24) C13 & (6) 5-20R
- Switched Outlet Level Monitoring

Description	Qty	Part #	Unit Price	Ext. Price	Contract
CPI Zetaframe Server Cabinet	4	ZB45-A220B-71	\$3,690.20	\$14,760.80	Sourcewell
Finger Cable Manager (Short Finger)	6	38646-736	\$241.91	\$1,451.46	Sourcewell
Finger Cable Manager (Long Finger)	2	38647-736	\$257.16	\$514.32	Sourcewell
Cable Lashing Panel 4.5"	6	38635-703	\$99.10	\$594.60	Sourcewell
Cable Lashing Panel 7.0"	2	38636-703	\$143.73	\$287.46	Sourcewell
Full Height PDU Bracket, Dual	8	38638-714	\$90.16	\$721.28	Sourcewell
Front-to-Rear Cable Manager	8	38648-703	\$127.18	\$1,017.44	Sourcewell
Snap-In Filler Panels (1U) (Qty 50)	1	34537-002	\$384.40	\$384.40	Sourcewell
Vertiv Switched, Vertical PDU	8	NU30020I	\$2,123.53	\$16,988.24	Sourcewell
Vertiv Environmental Sensor	4	GT3HD	\$220.78	\$883.12	Sourcewell
Vertiv Analog to Digital Converter	4	A2D-10	\$94.75	\$379.00	Sourcewell
Vertiv Flood Water Sensor	4	FS-15	\$77.70	\$310.80	Sourcewell
			Hardware Subtotal:	\$38,292.92	Sourcewell

Total Hardware Discounted Price \$ 76,947.58

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Installation Services:

We appreciate the opportunity to be of service for the design and installation of a Liebert UPS and Cabinet system at Mt. Diablo USD. The installation Systems will be provided with four (4) server cabinets for the network equipment plus a new Vertiv UPS System.

Based on our walk of the site, the new equipment will be placed on the raised flooring to the left of the existing cabinets.

We offer the following Scope of Work for this project:

1. Engineered drawings for this project have been removed per MDUSD.
2. DSA and/or City Permits are not included in this proposal per MDUSD.
3. Delivery of the equipment will be via padded van delivery to the job site. All equipment will be received at our warehouse, inspected, and held for a scheduled delivery.
4. Provide construction labor for the following:
 - a. Locate and place the four (4) network cabinets and the UPS System (2 cabinets wide).
 - b. Provide and install floor stands for the new UPS System for proper California anchorage.
 - c. Provide cabinet mounting and seismic anchoring of the indoor cabinets per Manufacturers Specifications.
 - d. Install and connect eight (8) PDU's for the network cabinets.
 - e. Schedule startup and warranty commissioning of UPS by Vertiv Technical Support
 - f. Schedule Client Training to correspond with Vertiv Startup
 - g. Provide mechanical labor to extend the existing AC Ducting approximately 8' toward the center of the room for improved air flow to the new equipment.
5. Provide complete electrical installation of the 30kVA eXM UPS Including:
 - a. Provide one (1) new circuit from the main distribution panel to the new UPS.
 - b. Power for the UPS will be provided from the Main Electrical Panel TC located adjacent to the network room. The power from this panel will be at 208 volts.
 - c. Provide and install up to eight (8) power cable assemblies in the upper plenums of the cabinets to connect the power from the load to the new PDU's. These will be L21-30 type assemblies and include the 3 pole 30 amp breakers.
 - d. Provide startup and warranty commissioning of UPS System by Vertiv Technical Support

To complete this scope, we have made the following assumptions:

1. Work hours will be 7 am – 5 pm Monday – Thursday. The typical work week is 4 days @ 10 hours/day.
2. MDUSD will provide access to the areas required for this work to be completed.
3. MDUSD will provide a location for staging of the SmartRow equipment thus eliminating the need for multiple deliveries of the equipment.
4. MDUSD will removal all equipment and/or storage boxes from the raised flooring area for the SmartRow installation.

Installation Pricing

Description	Price	Contract
Electrical	\$57,313.24	Sourcwell
Mechanical	\$25,483.68	Sourcwell
Structural	\$16,505.64	Sourcwell
Set-Up	\$13,127.40	Sourcwell
Construction	\$48,213.36	Sourcwell
Labor	\$61,561.08	Sourcwell
Project Management	\$3,396.60	Sourcwell
INSTALLATION TOTAL	\$225,601.00	Sourcwell

Typically, we'd use milestone billing for the installation on a job like this. These can be negotiated but this is our normal break-down.

Project Milestones	Percentage	Fees
Due at Signing of the SOW	25%	\$ 56,400.25
Delivery of UPS Equipment	25%	\$ 56,400.25
Electrical and Mechanical Install Completed	25%	\$ 56,400.25
Start-up and Commissioning Completed	25%	\$ 56,400.25
Subtotal	100%	\$ 225,601.00

Exclusions

- No Data Cabling, Racking or Ladder for the Network Room has been included in this proposal.
- No commissioning, or load banking of equipment has been included.
- We have not included any moving of servers or computer equipment (if any).
- Existing conditions of building systems meet all national and state building code requirements.
- No provisions are made in this proposal to add, delete, or modify an existing sprinkler system, if any.
- Assume that panel TC has sufficient capacity for the new equipment loads.

Customer Responsibilities:

- Provide a complete set of existing and/or as-built drawings of the facility if available.
- Provide a single point of contact during the project.
- Allow access to all areas of work.
- Timely approval of final locations of all equipment
- The client shall provide adequate space for equipment staging and personnel to coordinate construction activities.
- Communication with the building owner regarding the proposed work to take place at the site and obtaining their approval, including any construction standards or requirements for this project, is the responsibility of the customer.

Clarifications/Recommendations

- All installation quotes above assume the building's electrical system is sized appropriately for all the Network Room upgrades.
- Asbestos abatement, containment, and connection (if any) to the building shall be the responsibility of others.

<u>Sub-Total Hardware & Installation Price</u>	<u>\$302,548.58</u>
<u>Taxes</u>	<u>\$7,502.39</u>
<u>Grand Total Hardware & Installation Price</u>	<u>\$310,050.97</u>

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Terms & Conditions:

- Quotation Valid for 45 days
- CDW covers shipping

The terms and conditions provided on this link apply:

<http://www.cdw.com/content/terms-conditions/default.aspx>