



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header @ 2

List View

- General Information**
- Contact
- Default Values
- Discount
- Document Information
- Clarification Request

Procurement Folder: 1320010  
 Procurement Type: Central Purchase Order  
 Vendor ID: VS0000035853   
 Legal Name: DANIEL A NEWMAN  
 Alias/DBA: DANIEL A NEWMAN, dba POWER SYSTEMS ENGINEERING  
 Total Bid: \$51,947.00  
 Response Date: 11/28/2023   
 Response Time: 13:22  
 Responded By User ID: PSEUPS   
 First Name: DANIEL  
 Last Name: NEWMAN  
 Email: PSEUP@AOL.COM  
 Phone: 708-361-2758

SO Doc Code: CRFQ  
 SO Dept: 0803  
 SO Doc ID: DOT2400000049  
 Published Date: 11/13/23  
 Close Date: 11/30/23  
 Close Time: 13:30  
 Status: Closed  
 Solicitation Description: WVDOT UPS SYSTEM (81240024)  
 Total of Header Attachments: 2  
 Total of All Attachments: 2



Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

State of West Virginia  
 Solicitation Response

Proc Folder: 1320010

Solicitation Description: WVDOT UPS SYSTEM (81240024)

Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2023-11-30 13:30	SR 0803 ESR11282300000002566	1

**VENDOR**  
 VS0000035853  
 DANIEL A NEWMAN

Solicitation Number: CRFQ 0803 DOT2400000049

Total Bid: 51947

Response Date: 2023-11-28

Response Time: 13:22:53

Comments: Quoting equal UPS systems manufactured by Xtreme Power Conversion. These UPS systems meets and in some areas exceeds the specifications for requested Eaton UPS systems. Manufacturers literature is attached.

**FOR INFORMATION CONTACT THE BUYER**

John W Estep  
 304-558-2566  
 john.w.estep@wv.gov

<b>Vendor Signature X</b>	<b>FEIN#</b>	<b>DATE</b>
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	3.1 Eaton 9PXM UPS or equal	3.00000	EA	3550.000000	10650.00

Comm Code	Manufacturer	Specification	Model #
39121011			

**Commodity Line Comments:** Quoting equal UPS equipment manufactured by Xtreme Power Conversion. Manufacturers specifications are attached.

**Extended Description:**

3.1 Eaton 9PXM UPS or equal  
9PXM12AAAAA or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	3.2 Eaton Metered Input rack PDU or equal	8.00000	EA	1165.000000	9320.00

Comm Code	Manufacturer	Specification	Model #
39121011			

**Commodity Line Comments:** Quoting exact item requested manufactured by Eaton.

**Extended Description:**

3.2 Eaton Metered Input rack PDU or equal  
EMI200-10 or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	3.3 Eaton 9PXM split-phase power module or equal	6.00000	EA	2155.000000	12930.00

Comm Code	Manufacturer	Specification	Model #
39121011			

**Commodity Line Comments:** Quoting equal UPS equipment manufactured by Xtreme Power Conversion. Manufacturers specifications are attached.

**Extended Description:**

3.3 Eaton 9PXM split-phase power module or equal  
9PXMSPPM or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	3.4 Eaton 9PXM battery pack or equal	24.00000	EA	267.000000	6408.00

Comm Code	Manufacturer	Specification	Model #
39121011			

**Commodity Line Comments:** Quoting equal UPS equipment manufactured by Xtreme Power Conversion. Manufacturers specifications are attached.

**Extended Description:**

3.4 Eaton 9PXM battery pack or equal  
9PXMBAT or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	3.5 Eaton Gigabit Network Card or equal	3.00000	EA	199.000000	597.00

Comm Code	Manufacturer	Specification	Model #
39121011			

**Commodity Line Comments:** Quoting equal UPS equipment manufactured by Xtreme Power Conversion. Manufacturers specifications are attached.

**Extended Description:**

3.5 Eaton Gigabit Network Card or equal  
NETWORK-M2 or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	3.6 Eaton UPS startup service or equal	3.00000	EA	1346.000000	4038.00

Comm Code	Manufacturer	Specification	Model #
39121011			

**Commodity Line Comments:** Quoting equal UPS services provided by Xtreme Power Conversion. Manufacturers specifications are attached.

**Extended Description:**

3.6 Eaton UPS startup service or equal  
SU05NXXX-18000UC or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	3.7 Eaton Bypass Power Module (BPM) or equal	3.00000	EA	100.000000	300.00

Comm Code	Manufacturer	Specification	Model #
39121011			

**Commodity Line Comments:** Quoting equal UPS equipment manufactured by Xtreme Power Conversion. Manufacturers specifications are attached.

**Extended Description:**

3.7 Eaton Bypass Power Module (BPM) or equal  
BPM125HW or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
8	3.8 Eaton UPS 5-year extended warranty or equal	3.00000	EA	984.000000	2952.00

Comm Code	Manufacturer	Specification	Model #
39121011			

**Commodity Line Comments:** Quoting equal UPS services provided by Xtreme Power Conversion. Manufacturers specifications are attached.

**Extended Description:**

3.8 Eaton UPS 5-year extended warranty or equal  
9SW5Y-18000UC or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
9	3.9 Eaton EBM 5-year extended warranty or equal	24.00000	EA	198.000000	4752.00

Comm Code	Manufacturer	Specification	Model #
39121011			

**Commodity Line Comments:** Quoting equal UPS services provided by Xtreme Power Conversion. Manufacturers specifications are attached.

**Extended Description:**

3.9 Eaton EBM 5-year extended warranty or equal  
9SW5Y-18000BC or equal

# XTREME POWER CONVERSION M90S-4S

4 Slot Modular Online UPS // 208/120VAC Single-Phase

For more information, visit [www.xpcc.com/m90s-4s](http://www.xpcc.com/m90s-4s)



## Scalable, Modular, Flexible for Continuous Power Availability

Xtreme Power M90S UPS is a scalable, modular, flexible solution that combines continuous power availability and the highest efficiency for mission critical applications.

M90S provides unity power factor output (kVA = kW) providing maximum usable power and avoids any need to oversize the UPS. Maintenance bypass and output distribution within the UPS frame eliminate the need for external component connections, reducing installation costs.

Capacity, redundancy, battery runtime, and output receptacles can all be customized to meet your specific needs. Hot swappable power and battery modules provide rapid maintenance and repair.

For a 2 slot or 6 slot enclosure reference at [www.xpcc.com/m90s-2s](http://www.xpcc.com/m90s-2s) or [www.xpcc.com/m90s-6s](http://www.xpcc.com/m90s-6s)

### PRODUCT SNAPSHOT

- › Two capacities: 6kVA/6kW, 12kVA/12kW
- › Modular for capacity or redundancy
- › Unity output power factor (kVA =kW)
- › Hot swappable power and battery modules
- › Up to 98% ECO mode or 93% online efficiency
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Scalable**—when power or runtime requirements change, modules can be added to increase capacity

**Maintenance bypass**—manually transfer critical loads from UPS power to utility power, enabling M90S maintenance

**Large LCD display**—5.7" display provides graphic display including status and alarms

**Optional receptacle panels**—fully configurable output receptacle panels

**Power module LCD**—each power module includes LCD display, providing module detailed information and redundancy

**Highest availability**—system can be configured with redundant power and battery modules

**Reduce energy cost**—best-in-class energy efficiency provides lowest energy consumption and heat output

**XTREME**  
Power Conversion®

Protect your business.

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/m90s-4s](http://www.xpcc.com/m90s-4s)

MODEL NUMBER		M90S-4S6K	M90S-4S12K
CAPACITY	Power Rating	6kVA/6kW	12kVA/12kW
INPUT	Voltage / frequency nominal	120/208V or 120/240V & 50/60Hz auto-sensing (2PH+N+G)	
	Voltage / frequency range	152-269VAC* (L-L) / 40-70Hz	
OUTPUT	Voltage & Frequency	120/208V or 120/240V & 50/60Hz ± 0.1Hz; (2PH+N)	
	Efficiency / THD (full load)	Up to 98% ECO mode, 93% online mode / ≤2% (Linear load); ≤3% (Non linear load)	
	Overload capacity	100% - 110% for 30 min; 110% - 130% for 5min; 130% - 150% for 10s; > 150% for 200ms	
BATTERY SYSTEM	Nominal voltage	+/-96V	
	Max charging (adjustable)	4A	8A
MODULE DIMENSION & WEIGHT	Power module	16.3"W x 24"D x 5.2"H / 38 lbs	
	Battery module	16.3"W x 24"D x 5.2"H / 107 lbs	
SYSTEM ENCLOSURE	Dimensions & Weight	UPS 17.4"W x 33.7"D x 33"H & 130 lbs / BC7 17.4"W x 33.7"D x 45.5"H & 162 lbs	
	Maximum Capacity	12kVA	
	Enclosure Capacity	4 slots including 2 universal slots + 2 battery only slots	
	Optional Battery Enclosure	7 slots for additional battery modules	
	Output Connections	Terminal blocks and/or up to 2 receptacle panels	
ENVIRONMENT	Temperature	0-40°C (32-104°F)	
	Altitude	5,200 ft above sea level	
	Audible noise	< 58dBA at 1m	
APPROVALS	UL-1778 (TUV), cUL, FCC A, RoHS		
WARRANTY	3 year electronics, 3 year battery (USA and Canada)		
COMMUNICATIONS INTERFACE	RS-232, USB, Dry Contacts, EPO, (2) intelligent slot for optional cards (Web/SNMP, Relay, Modbus)		
INCLUDED IN BOX	User manual, USB cable, RS-232 cable, ViewPower Software, anchor brackets		
AVAILABLE OPTIONS	L14-30P line cord (6kVA), receptacle panels (2 max), extended battery cabinet, 5 year extended warranty		

\*Depending on load level

## BATTERY RUNTIMES

Battery Modules	4S UPS				4S UPS + 1 BC7						4S UPS + 2 BC7				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
6kW	9	22	35	50	66	82	99	113	124*	133*	148*	163*	179*	194*	209*
12kW	-	9	15	22	28	35	43	50	58	66	74	82	90	99	106

Runtimes are shown in minutes and will vary based on battery age and site conditions. Maximum of 8 battery modules per UPS power module.

\*Additional power module required for battery recharge.

Receptacle Panels	
A	(8) 5-20R
B	(2) C19 + (4) 5-20R
C	L6-30R + (2) C19
D	L14-30R + (2) C19
E	(2) L6-20R + (4) 5-20R
F	L6-20R + L6-30R + (4) 5-20R
G	L6-30R + (2) L6-20R
H	(3) L6-30R

Maximum of 2 receptacle panels per enclosure

**LCD Display**  
5.7" display provides graphic display including status and alarms

**6kVA/6kW Power Module**  
includes PFC rectifier, battery charger, inverter and control circuits

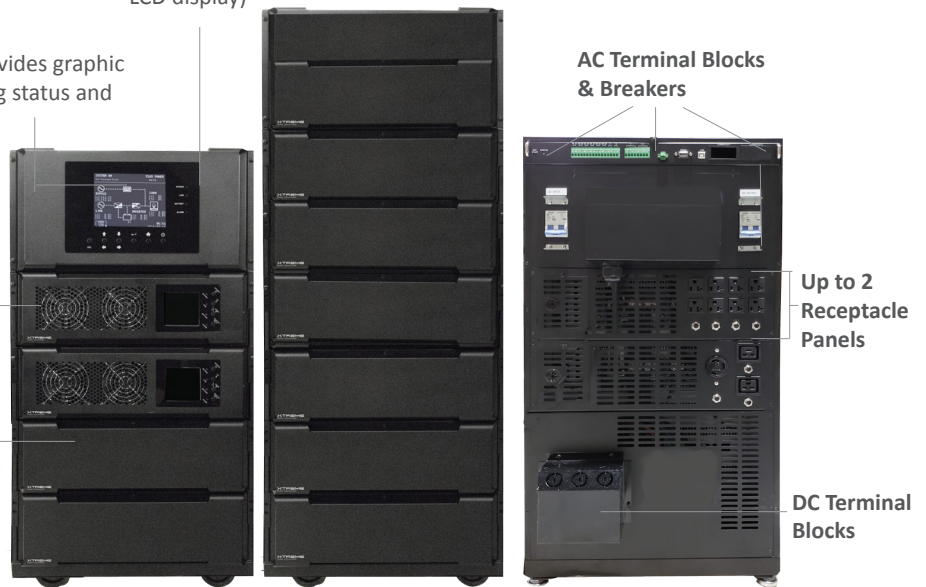
**Battery Module**  
includes 16 pieces of 12V 580W batteries

**Maintenance Bypass**  
full wrap around maintenance bypass (located behind hinged LCD display)

**AC Terminal Blocks & Breakers**

**Up to 2 Receptacle Panels**

**DC Terminal Blocks**



M90S-4S front view

M90S-BC7 front view

M90S-4S rear view

**X-TREME**  
Power Conversion\*

Protect your business.

XPC USA / Denver, CO / sales@xpcc.com

XPC EMEA / Rotterdam, NL / emea@xpcc.com

www.xpcc.com



# XTREME POWER CONVERSION M90S-6S

6 Slot Modular Online UPS // 208/120VAC Single-Phase

For more information, visit [www.xpcc.com/m90s-6s](http://www.xpcc.com/m90s-6s)



## Scalable, Modular, Flexible for Continuous Power Availability

Xtreme Power M90S UPS is a scalable, modular, flexible solution that combines continuous power availability and the highest efficiency for mission critical applications.

M90S provides unity power factor output (kVA = kW) providing maximum usable power and avoids any need to oversize the UPS. Maintenance bypass and output distribution within the UPS frame eliminate the need for external component connections, reducing installation costs.

Capacity, redundancy, battery runtime, and output receptacles can all be customized to meet your specific needs. Hot swappable power and battery modules provide rapid maintenance and repair.

For a 2 slot or 4 slot enclosure reference at [www.xpcc.com/m90s-2s](http://www.xpcc.com/m90s-2s) or [www.xpcc.com/m90s-4s](http://www.xpcc.com/m90s-4s)

### PRODUCT SNAPSHOT

- › Four capacities: 6kVA/6kW, 12kVA/12kW, 18kVA/18kW, 24kVA/24kW
- › Modular for capacity or redundancy
- › Unity output power factor (kVA=kW)
- › Hot swappable power and battery modules
- › Up to 98% ECO mode or 93% online efficiency
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Scalable**—when power or runtime requirements change, modules can be added to increase capacity

**Highest availability**—system can be configured with redundant power and battery modules

**Large LCD display**—5.7" display provides graphic display including status and alarms

**Optional receptacle panels**—fully configurable output receptacle panels

**Power module LCD**—each power module includes LCD display, providing module detailed information and redundancy

**Maintenance bypass**—manually transfer critical loads from UPS power to utility power, enabling M90S maintenance

**Reduce energy cost**—best in class energy efficiency provides lowest energy consumption and heat output

**XTREME**  
Power Conversion®

Protect your business.

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/m90s-6s](http://www.xpcc.com/m90s-6s)

MODEL NUMBER		M90S-6S6K	M90S-6S12K	M90S-6S18K	M90S-6S24K
CAPACITY	Power Rating	6kVA/6kW	12kVA/12kW	18kVA/18kW	24kVA/24kW
INPUT	Voltage/Frequency Nominal	120/208V or 120/240V // 50/60Hz auto-sensing (2PH+N+G)			
	Voltage/Frequency Range	152-269VAC* (L-L) / 40-70Hz			
OUTPUT	Voltage & Frequency	120/208V or 120/240V & 50/60Hz ± 0.1Hz; (2PH+N)			
	Efficiency / THD (full load)	Up to 98% ECO mode, 93% online mode / ≤2% (Linear load); ≤3% (Non linear load)			
	Overload Capacity	100% - 110% for 30 min; 110% - 130% for 5min; 130% - 150% for 10s; > 150% for 200ms			
BATTERY SYSTEM	Nominal Voltage	+/-96V			
	Max charging (adjustable)	4A	8A	12A	16A
MODULE DIMENSION & WEIGHT	Power Module	16.3"W x 24"D x 5.2"H / 38 lbs			
	Battery Module	16.3"W x 24"D x 5.2"H / 107 lbs			
SYSTEM ENCLOSURE	Dimensions & Weight	17.4"W x 33.7"D x 45.5"H (UPS & BC7) // UPS=169 lbs / BC7=162 lbs			
	Maximum Capacity	24kVA			
	Enclosure Capacity	6 slots including 4 universal slots + 2 battery only slots			
	Optional Battery Enclosure	7 slots for additional battery modules			
	Output Connections	Terminal blocks and/or up to 4 receptacle panels			
ENVIRONMENT	Temperature	0-40°C (32-104°F)			
	Altitude	5,200 ft above sea level			
	Audible noise	< 58dBA at 1m			
APPROVALS	UL-1778 (TUV), cUL, FCC A, RoHS				
WARRANTY	3 year electronics, 3 year battery (USA and Canada)				
COMMUNICATIONS INTERFACE	RS-232, USB, dry contacts, EPO, (2) intelligent slots for optional cards (Web/SNMP, Relay, Modbus)				
INCLUDED IN BOX	User manual, USB cable, RS-232, ViewPower software, anchor brackets				
AVAILABLE OPTIONS	L14-30P line cord (6kVA), receptacle panels (4 max), extended battery cabinet, L14-30P line cord 5 year extended warranty				

\*Depending on load level

## BATTERY RUNTIMES

Battery Modules	6S UPS					6S UPS + 1 BC7						6S UPS + 2 BC7			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
6kW	9	22	35	50	66	82	99	113	124*	133*	148*	163*	179*	194*	209*
12kW	-	9	15	22	28	35	43	50	58	66	74	82	90	99	106
18kW	-	-	9	13	17	22	26	31	35	40	45	50	55	61	66
24kW	-	-	-	9	12	15	19	22	25	28	32	35	39	43	46

Runtimes are shown in minutes and will vary based on battery age and site conditions. Maximum 8 battery modules per UPS power module.

\*Additional power module required for battery recharge.

Receptacle Panels	
A	(8) 5-20R
B	(2) C19 + (4) 5-20R
C	L6-30R + (2) C19
D	L14-30R + (2) C19
E	(2) L6-20R + (4) 5-20R
F	L6-20R + L6-30R + (4) 5-20R
G	L6-30R + (2) L6-20R
H	(3) L6-30R

Maximum of 4 receptacle panels per enclosure

### LCD Display

5.7" display provides graphic display including status and alarms

### Maintenance Bypass

full wrap around maintenance bypass (located behind hinged LCD display)

### 6kVA/6kW Power Module

includes PFC rectifier, battery charger, inverter and control circuits

### Battery Module

includes 16 pieces of 12V 580W batteries

### AC Terminal Blocks & Breakers

Receptacle Panels install up to 4

DC Terminal Blocks



M90S-6S front view



M90S-BC7 front view



M90S-6S rear view

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