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Header @ 3

List View

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

Procurement Folder: 1360223

Procurement Type: Central Purchase Order

Vendor ID: 000000207543

Legal Name: GEORGE L WILSON & CO OF WV INC

Alias/DBA:

Total Bid: \$90,965.00

Response Date: 02/12/2024

Response Time: 7:48

Responded By User ID: glwvv1

First Name: Bryan

Last Name: Carlin

Email: b.carlin@georgelwilson.com

Phone: 304-592-3217

SO Doc Code: CRFQ

SO Dept: 0803

SO Doc ID: DOT2400000063

Published Date: 2/5/24

Close Date: 2/13/24

Close Time: 13:30

Status: Closed

Solicitation Description: ADDENDUM NO_3 WVDOT UPS SYSTEM (81240078)

Total of Header Attachments: 3

Total of All Attachments: 3

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	3.1.1 Eaton 9PXM UPS or equal	3.00000	EA	4958.330000	14874.99

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks

Extended Description:

3.1.1 Eaton 9PXM UPS, part number 9PXM12AAAAA or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	3.1.2 Eaton 9PXM split-phase power module or equal	6.00000	EA	2825.000000	16950.00

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks

Extended Description:

3.1.2 Eaton 9PXM split-phase power module, part number 9PXMSPPM or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	3.1.3 Eaton 9PXM battery pack or equal	24.00000	EA	465.625000	11175.00

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks

Extended Description:

3.1.3 Eaton 9PXM battery pack, part number 9PXMBAT or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	3.1.4 Eaton Gigabit Network Card or equal	3.00000	EA	338.330000	1014.99

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks

Extended Description:

3.1.4 Eaton Gigabit Network Card, part number NETWORK-M3 or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	3.1.5 Eaton UPS 5-year extended warranty or equal	3.00000	EA	2416.670000	7250.01

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks

Extended Description:

3.1.5 Eaton UPS 5-year extended warranty, part number 9SW5Y-18000UC or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	3.1.6 Eaton Bypass Power Module (BPM) or equal	3.00000	EA	2791.670000	8375.01

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks**Extended Description:**

3.1.6 Eaton Bypass Power Module (BPM), part number BPM125ER or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	3.1.7 Eaton Onsite 9PXM Rack Installation & Startup or equal	2.00000	EA	2000.000000	4000.00

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks**Extended Description:**

3.1.7 Eaton Onsite 9PXM Rack Installation and Startup, part number SR052XXX-18000U C or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
8	3.1.8 Eaton Onsite 9PXM Rack Installation/ Startup or equal	1.00000	EA	2900.000000	2900.00

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks**Extended Description:**

3.1.8 Eaton Onsite 9PXM Rack Installation and Startup, part number SR05NXXX-18000U C or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
9	3.1.9 Eaton Managed Rack PDU or equal	8.00000	EA	1262.500000	10100.00

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks**Extended Description:**

3.1.9 Eaton Managed Rack PDU, part number EMA108-10 or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
10	3.1.10 Eaton Environmental Monitoring Probe Gen 2 or equal	8.00000	EA	237.500000	1900.00

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks

Extended Description:

3.1.10 Eaton Environmental Monitoring Probe Gen 2, part number EMPDT1H1C2 or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
11	3.1.11 Eaton Kit - Rack mount or equal	3.00000	EA	500.000000	1500.00

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks**Extended Description:**

3.1.11 Eaton Kit - Rack mount, part number 9PXMRK2 or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
12	3.1.12 Eaton Visual Power Manager - 50 node or equal	1.00000	EA	5300.000000	5300.00

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks**Extended Description:**

3.1.12 Eaton Visual Power Manager - 50 node, part number VPM-50 or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
13	3.1.13 Eaton Visual Power Manager RMA Support or equal	1.00000	EA	1075.000000	1075.00

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks**Extended Description:**

3.1.13 Eaton Visual Power Manager RMA Support, part number VPM-SUPPORT-50 or equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
14	3.1.14 Eaton Pro Installation Services or equal	4.00000	EA	1137.500000	4550.00

Comm Code	Manufacturer	Specification	Model #
39121011			

Commodity Line Comments: Lead time is 4-6 Weeks**Extended Description:**

3.1.14 Eaton Pro Installation Services, part number SW-INSTALL-1K or equal

Project Name: WV DOT CRFQ 240000049
General Order No:

Negotiation No: CRP41130X3K1
Alternate No: 0000

Item No.	Qty	Product	Description
	3	9PXM UPS 4kVA-20kVA	9PXM 8kVA, Hot-Swappable Power Modules and Battery Modules, Double-Conversion online topology, Up to 94% efficiency, 12 Slot, (2) 120/208, 120/240V Split Phase Power Modules, 17 minutes of runtime at 8kVA, Hardwired Input, Hardwired Output, Includes Caster Kit

Catalog No 9PXM12AAAAA

Catalog No	Qty	List of Materials
9PXM12AAAAA	3	9PXM 12 Slot Chassis HW In/Out
9PXMSPPM	6	EATON 9PXM Split-Phase Power Module 4KVA
9PXMBAT	24	Battery Pack, 9PXM
Network-M3	3	Network Card
9SW5Y-18000UC	3	Ext Warranty-5YR UPS Adv Exchg, New Prod
BPM125ER	3	Bypass, 125A Receptacle BPM125ER
SR052XXX-18000UC	2	Onsite Rack Installation and Start-up Service, 2 nd Unit Plus
SU05NXXX-18000UC	1	Onsite Rack Installation and Start-up Service, 1 st Unit
EMI200-10	8	Enclosure PDU L14-30P on 10' Cord, (20) C13, (6) C19, (8) 5-20R
EMPDT1H1C2	8	Environmental Monitoring Probe, Gen2
9PXM RK2	3	Rack Kit for 9PXM Chassis
VPM-50	1	Virtual Power Manager – Rack Mtd Assets – 50 Node
VPM-SUPPORT-50	1	VPM – 50 RMA Annual Support
SW-INSTALL-\$1K	4	Pro Installation Services - \$1000

ESTIMATED FREIGHT PRICE ADDERS

FREIGHT-PQD	1	Standard Ground Shipping to WV, FOB P/S
FREIGHT-PQD	1	FOB Destination

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

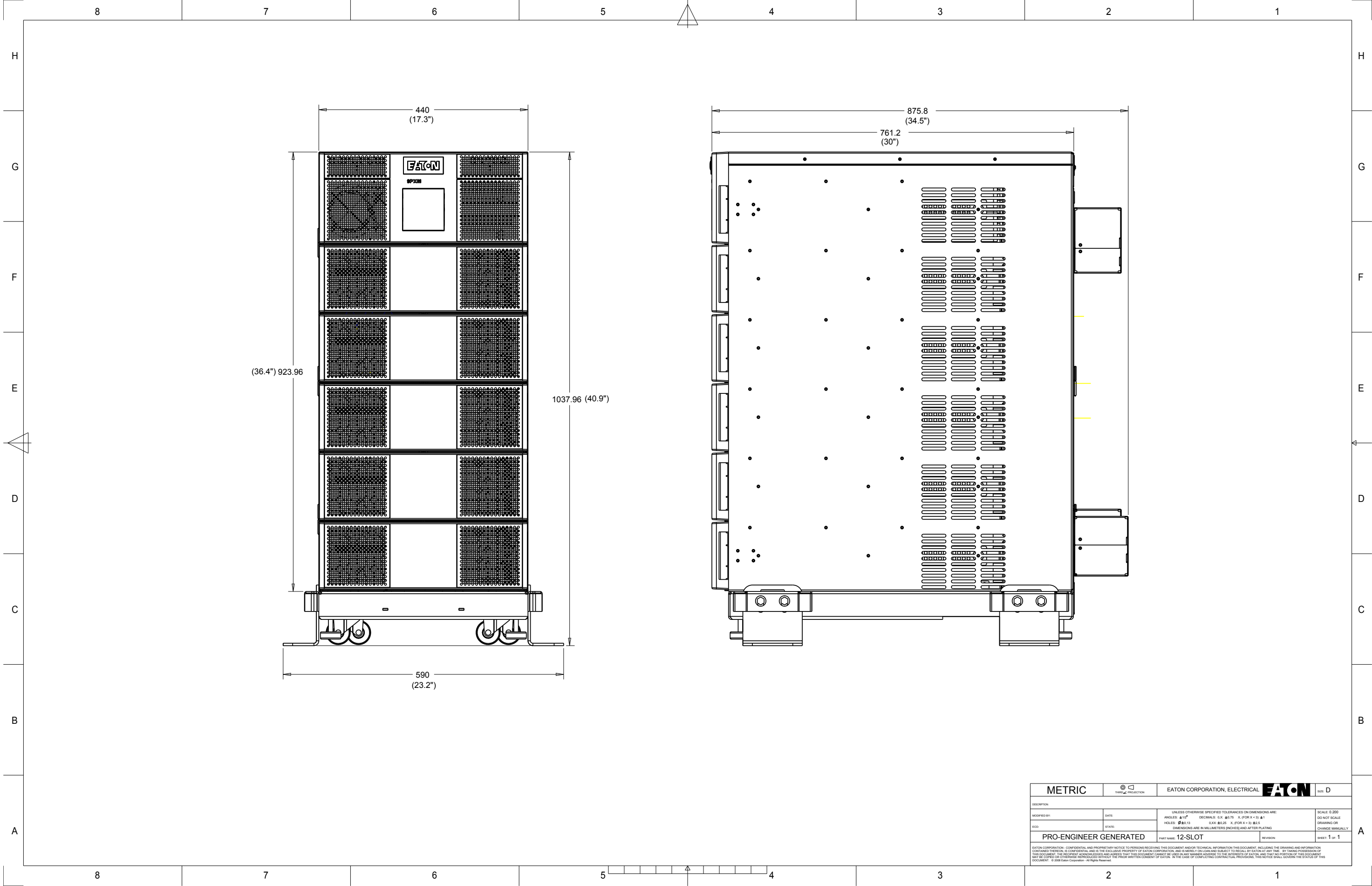
General Information: 9PXM UPS 4kVA-20kVA

9PXM Specifications

Power Rating:	8kVA	Chassis Size:	12 Slot
Voltage:	110V/220V, 120/208V, 120/240V, 127/200V	Battery Module Quantity:	8
Full load Runtime (min):	17	Input Connection:	Hardwired
Output Configuration:	Hardwired		
Charger Required:	None	UPS Dimensions (HxWxD):	36.5 x 17.5 x 34.5
Total System Weight (lbs):	185		

Specs for Three (3) Identical UPS Systems

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	APPROVED BY	DATE	JOB NAME WV DOT CRFQ 240000049	DESIGNATION	
	VERSION 10.0.0.0	TYPE 9PXM UPS 4kVA-20kVA	DRAWING TYPE Customer Appr.		
NEG-ALT Number CRP41130X3K1-0000	REVISION 0	DWG SIZE A	G.O.	ITEM	SHEET 1 of 1

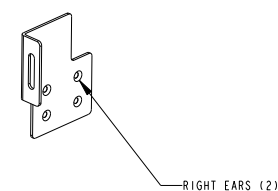
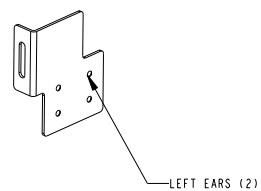


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DESCRIPTION:		UNLESS OTHERWISE SPECIFIED TOLERANCES ON DIMENSIONS ARE:			SCALE: 0.200
MODIFIED BY:	DATE:	ANGLES: ±1°	DECIMALS: 0.X ±0.75 X, FOR X < 3: ±1	DO NOT SCALE	
ECO:	STATE:	HOLES: Ø±0.13	0.XX ±0.25 X, FOR X > 3: ±2.5	DRAWING OR CHANGE MANUALLY	
PRO-ENGINEER GENERATED		PART NAME: 12-SLOT		REVISION:	SHEET 1 of 1
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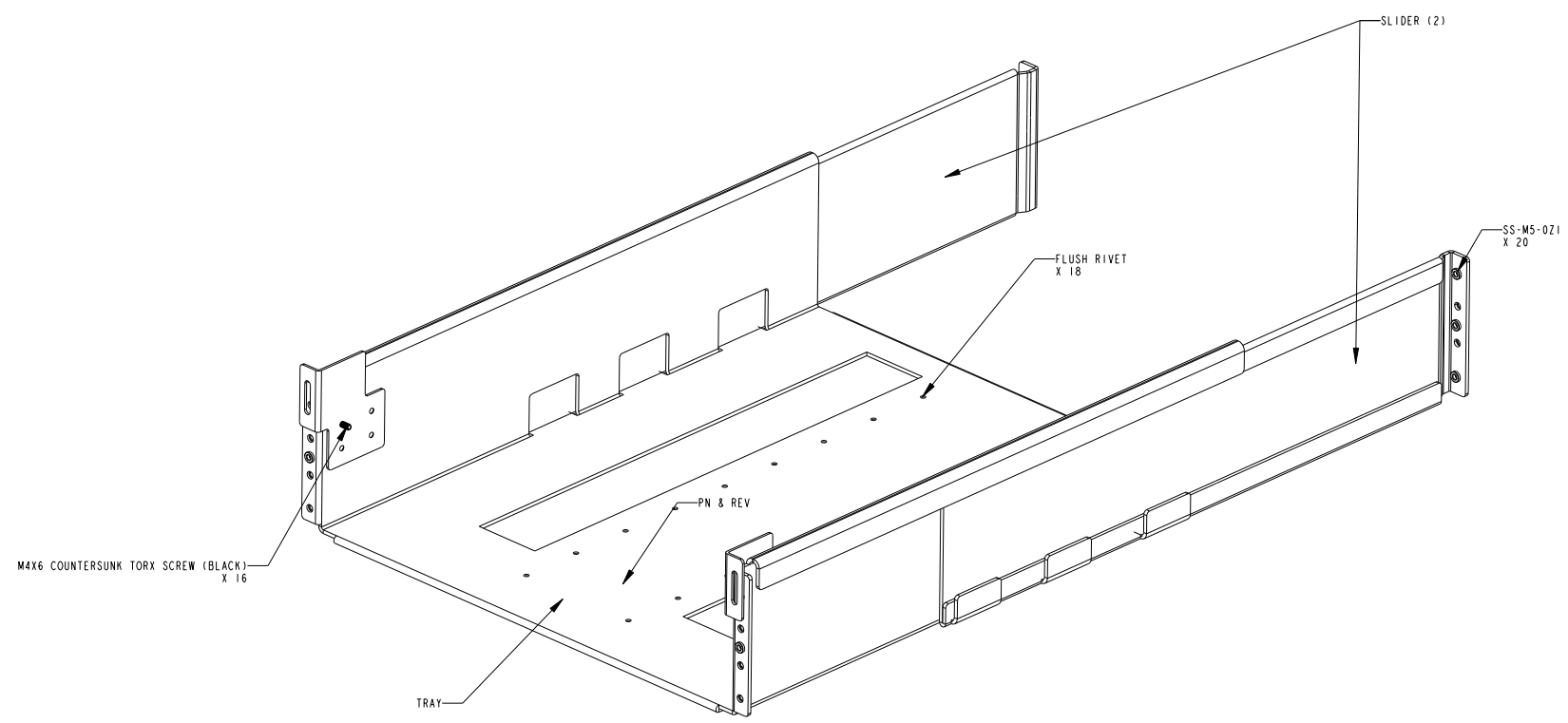
GO/NEG-Alt-Date:	CRP41130X3K1-0000-2/7/2024	Job Name:	WV DOT CRFQ 24000049
Item Number:	Catalog Number: 9PXM12AAAAA	Designation:	

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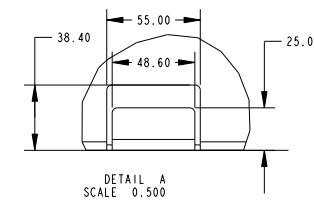
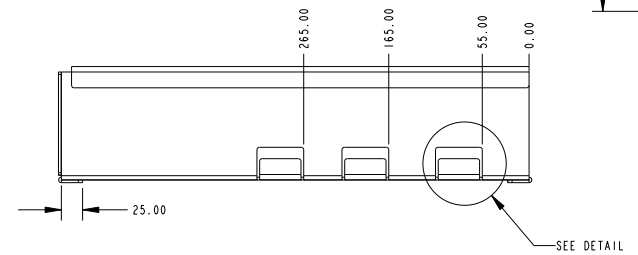
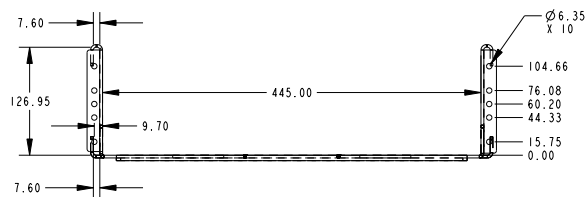
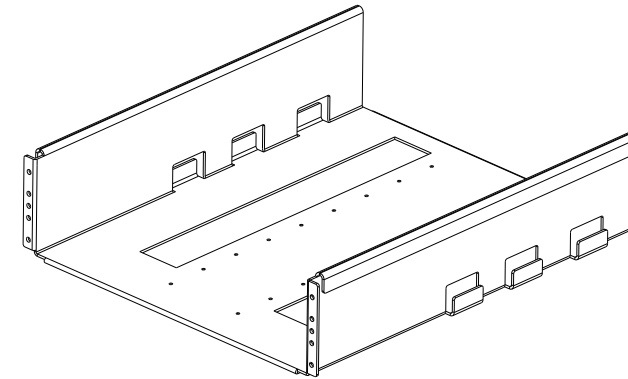
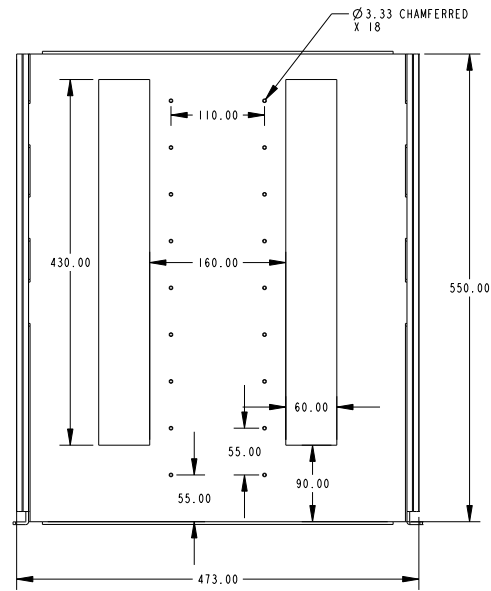
ITEM #	NAME	QTY
1	TRAY ASM	1
2	REAR ASM	2
3	LEFT EAR	2
4	RIGHT EAR	2
5	M4X6 TORX SCREW	16
6		



SCALE 0.400

METRIC		EATON CORPORATION, ELECTRICAL		Eaton		SIZE: D
DESCRIPTION: 9PXM, RAIL TRAY						
MODIFIED BY: J. Van	DATE: 15-May-2018	UNLESS OTHERWISE SPECIFIED TOLERANCES ON DIMENSIONS ARE:			SCALE: 0.250	
ECD: ECD-140687	STATE: Release	ANGLES: ±1/2°	DECIMALS: 0.X: ±0.15 X, IFOR X > 31: ±1	DO NOT SCALE		
PRO-ENGINEER GENERATED		PART NAME: P-157002204		REVISION: 04	SHEET: 1 of 5	
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GO/NEG-Alt-Date: CRP41130X3K1-0000-2/7/2024	Job Name: WV DOT CRFQ 24000049
Item Number:	Catalog Number: 9PXM12AAAAA
	Designation:



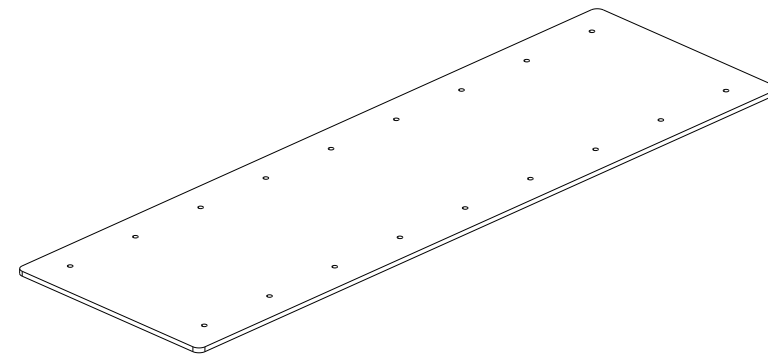
- NOTES:
- MATERIAL: 3MM (11 GAUGE) G90 GALVANIZED STEEL PER ASTM A653 CS TYPE B OR EQUIVALENT; OR HOT DIP ZINC COATED STEEL PER EN 10142 DX51D+Z275MAC.
 - TOLERANCES UNLESS OTHERWISE SPECIFIED: LENGTHS, HOLE TO EDGE OR EDGE TO EDGE: ±0.5MM. BETWEEN ANY TWO HOLES IN SAME PLANE: ±0.25MM. ANGLES: ±0.5°. DIAMETERS ±0.13MM. TOLERANCE IS NON-ACCUMULATIVE.
 - MATERIALS MUST COMPLY WITH EU DIRECTIVE 2002/95/EC. RoHS COMPLIANT PER EATON SPECIFICATION 164080496.
 - DOCUMENTATION CERTIFYING MATERIALS AND COMPONENTS ARE RoHS COMPLIANT SHALL BE AVAILABLE UPON REQUEST.
 - INSIDE BEND RADI: 1.5MM ±0.5MM.
 - METAL STAMP CUSTOMER PART NUMBER AND REVISION USING 3MM HIGH CHARACTERS. LOCATION PER VENDOR.
 - FINISH: NONE REQUIRED. EDGES SHALL BE FREE OF BURRS.
 - OK FOR MANUFACTURING TRANSFER FROM PRO-E 3D FILE.

METRIC		EATON CORPORATION, ELECTRICAL		ACN		SIZE: D
DESCRIPTION: TRAY						
MODIFIED BY: J. Van	DATE: 15-May-2018	UNLESS OTHERWISE SPECIFIED TOLERANCES ON DIMENSIONS ARE:			SCALE: 0.250	DO NOT SCALE
ECD: ECD-14067	STATE: Release	ANGLES: ±1/2°	DECIMALS: 0.X; ±0.15 X, IFOR X > 31; ±1	Holes: ±0.13	0.X; ±0.25 X, IFOR X > 31; ±2.5	DRAWING OR CHANGE MANUALLY
PRO-ENGINEER GENERATED		PART NAME: P-157002204		REVISION: 04	SHEET: 2 of 5	
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GO/NEG-Alt-Date: CRP41130X3K1-0000-2/7/2024	Job Name: WV DOT CRFQ 240000049
Item Number:	Catalog Number: 9PXM12AAAAA
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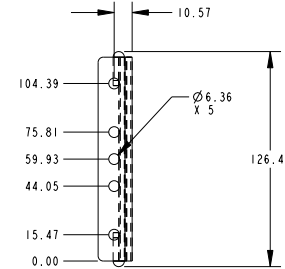
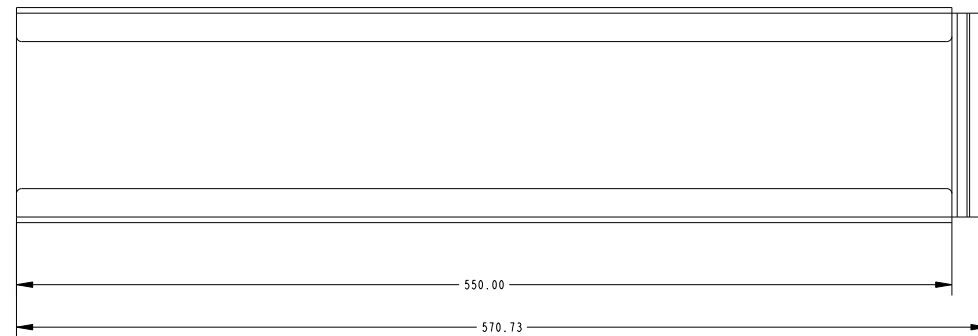
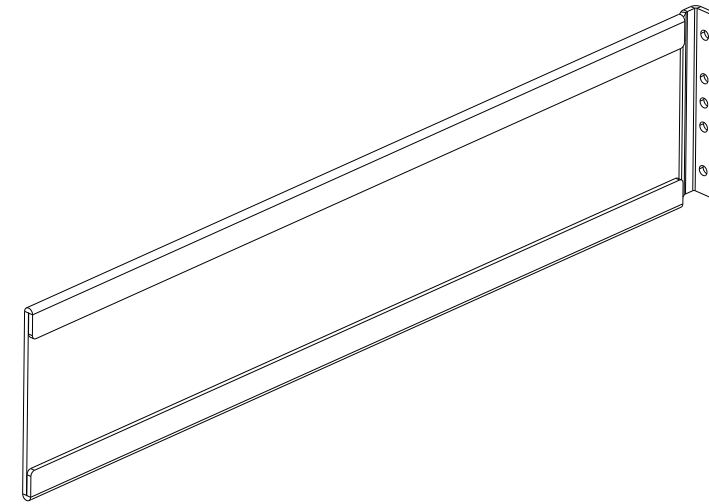
- NOTES:
1. MATERIAL: 3MM (11 GAUGE) G90 GALVANIZED STEEL PER ASTM A653 CS TYPE B OR EQUIVALENT, OR HOT DIP ZINC COATED STEEL PER EN 10142 DX51D+Z275MAC.
 2. TOLERANCES UNLESS OTHERWISE SPECIFIED: LENGTHS, HOLE TO EDGE OR EDGE TO EDGE: $\pm 0.5MM$. BETWEEN ANY TWO HOLES IN SAME PLANE: $\pm 0.25MM$. ANGLES: $\pm 0.5^\circ$. DIAMETERS $\pm 0.13MM$. TOLERANCE IS NON-ACCUMULATIVE.
 3. MATERIALS MUST COMPLY WITH EU DIRECTIVE 2002/95/EC. ROHS COMPLIANT PER EATON SPECIFICATION 164080496
 4. DOCUMENTATION CERTIFYING MATERIALS AND COMPONENTS ARE ROHS COMPLIANT SHALL BE AVAILABLE UPON REQUEST.
 5. INSIDE BEND RADIUS: 1.5MM $\pm 0.5MM$.
 6. METAL STAMP CUSTOMER PART NUMBER AND REVISION USING 3MM HIGH CHARACTERS. LOCATION PER VENDOR.
 7. FINISH: NONE REQUIRED; EDGES SHALL BE FREE OF BURRS.
 8. OK FOR MANUFACTURING TRANSFER FROM PRO-E 3D FILE.

METRIC		THIRD ANGLE PROJECTION	EATON CORPORATION, ELECTRICAL	EACN	SIZE: D
DESCRIPTION: BOTTOM PLATE					
MODIFIED BY: J. Van	DATE: 15-May-2018	UNLESS OTHERWISE SPECIFIED TOLERANCES ON DIMENSIONS ARE:		SCALE: 0.500	
EOD: EOD-14067	STATE: Release	ANGLES: $\pm 1/2^\circ$	DECIMALS: 0.X; ± 0.15	X, IFOR X < 31; ± 1	DO NOT SCALE
PRO-ENGINEER GENERATED		Holes: $\varnothing 3.33$	0.XX; ± 0.25	X, IFOR X > 31; ± 2.5	DRAWING OR CHANGE MANUALLY
PART NAME: P-157002204		DIMENSIONS ARE IN MILLIMETERS (INCHES) AND AFTER PLATING		REVISION: 04	SHEET: 3 of 5
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GO/NEG-Alt-Date: CRP41130X3K1-0000-2/7/2024	Job Name: WV DOT CRFQ 240000049
Item Number:	Catalog Number: 9PXM12AAAAA
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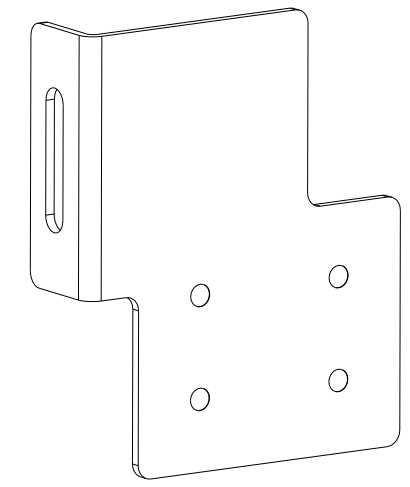
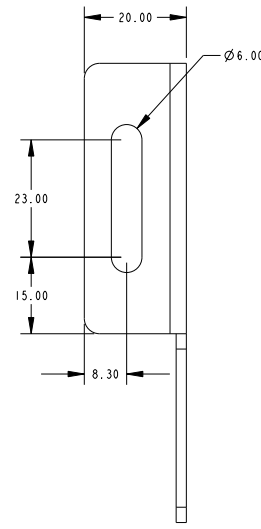
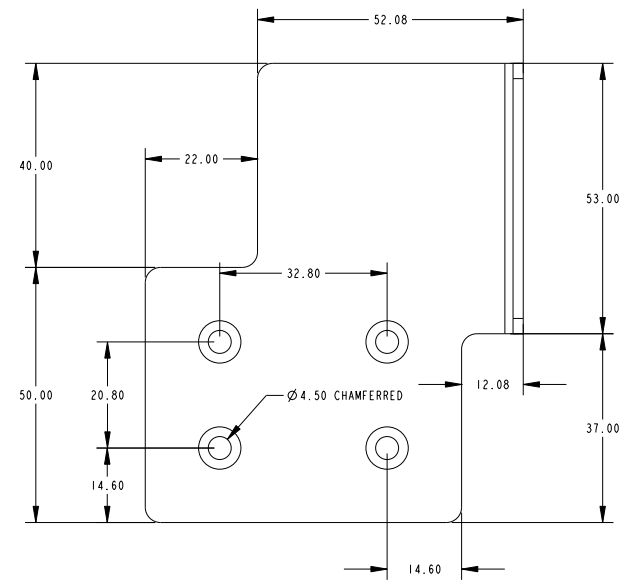
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- NOTES:
1. MATERIAL: 3MM (11 GAUGE) G90 GALVANIZED STEEL PER ASTM A653 CS TYPE B OR EQUIVALENT, OR HOT DIP ZINC COATED STEEL PER EN 10142 DX51D+Z275MAC.
 2. TOLERANCES UNLESS OTHERWISE SPECIFIED: LENGTHS, HOLE TO EDGE OR EDGE TO EDGE: $\pm 0.5MM$. BETWEEN ANY TWO HOLES IN SAME PLANE: $\pm 0.25MM$. ANGLES: $\pm 0.5^\circ$. DIAMETERS $\pm 0.13MM$. TOLERANCE IS NON-ACCUMULATIVE.
 3. MATERIALS MUST COMPLY WITH EU DIRECTIVE 2002/95/EC. RoHS COMPLIANT PER EATON SPECIFICATION: 16400496.
 4. DOCUMENTATION CERTIFYING MATERIALS AND COMPONENTS ARE RoHS COMPLIANT SHALL BE AVAILABLE UPON REQUEST.
 5. INSIDE BEND RADIUS: 1.5MM $\pm 0.5MM$.
 6. METAL STAMP CUSTOMER PART NUMBER AND REVISION USING 3MM HIGH CHARACTERS. LOCATION PER VENDOR.
 7. FINISH: NONE REQUIRED. EDGES SHALL BE FREE OF BURRS.
 8. OK FOR MANUFACTURING TRANSFER FROM PRO-E 3D FILE.

METRIC		EATON CORPORATION, ELECTRICAL		ACN		SIZE: D
DESCRIPTION: SLIDER						
MODIFIED BY: J. Van	DATE: 15-May-2018	UNLESS OTHERWISE SPECIFIED TOLERANCES ON DIMENSIONS ARE:			SCALE: 0.500	
ECD: ECD-140087	STATE: Release	ANGLES: $\pm 1/2^\circ$	DECIMALS: 0.X; ± 0.15	X; IFOR X < 31: ± 1	DO NOT SCALE	
PRO-ENGINEER GENERATED		PART NAME: P-157002204		REVISION: 04	SHEET: 4 of 5	
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GO/NEG-Alt-Date: CRP41130X3K1-0000-2/7/2024	Job Name: WV DOT CRFQ 24000049
Item Number:	Catalog Number: 9PXM12AAAAA
	Designation:



SHOWN LEFT EARS
RIGHT EARS ARE MIRRORED

- NOTES:
1. MATERIAL: 2.0MM (14 GAUGE) COLD ROLLED STEEL PER ASTM A1008 CS TYPE B.
 2. TOLERANCES UNLESS OTHERWISE SPECIFIED:
LENGTHS, HOLE TO EDGE OR EDGE TO EDGE: $\pm 0.5MM$.
BETWEEN ANY TWO HOLES IN SAME PLANE: $\pm 0.25MM$.
ANGLES: $\pm 0.5^\circ$, DIAMETERS $\pm 0.13MM$.
TOLERANCE IS NON-ACCUMULATIVE.
 3. MATERIALS MUST COMPLY WITH EU DIRECTIVE 2002/95/EC. ROHS COMPLIANT PER EATON SPECIFICATION 164080496.
 4. DOCUMENTATION CERTIFYING MATERIALS AND COMPONENTS ARE ROHS COMPLIANT SHALL BE AVAILABLE UPON REQUEST.
 5. INSIDE BEND RADIUS: $1.5MM \pm 0.5MM$.
 6. METAL STAMP CUSTOMER PART NUMBER AND REVISION USING 3MM HIGH CHARACTERS. LOCATION APPROXIMATELY AS SHOWN.
 7. FINISH: BLACK POWDER PER EATON SPECIFICATION 164700509-001. EDGES SHALL BE FREE OF BURRS.
 8. OK FOR MANUFACTURING TRANSFER FROM PRO-E 3D FILE.

METRIC		EATON CORPORATION, ELECTRICAL		ACN		SIZE: D
DESCRIPTION: EAR						
MODIFIED BY: J. Van	DATE: 15-May-2018	UNLESS OTHERWISE SPECIFIED TOLERANCES ON DIMENSIONS ARE:			SCALE: 1:000	DO NOT SCALE
ECD: ECD-140687	STATE: Release	ANGLES: $\pm 1/2^\circ$	DECIMALS: 0.X; ± 0.15	X, IFOR X < 31; ± 1	DRAWING OR	CHANGE MANUALLY
PRO-ENGINEER GENERATED		PART NAME: P-157002204		REVISION: 04	SHEET: 5 of 5	
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GO/NEG-Alt-Date:	CRP41130X3K1-0000-2/7/2024	Job Name:	WV DOT CRFQ 24000049
Item Number:	Catalog Number: 9PXM12AAAAA	Designation:	

Bypass Power Module Dimensions

Figure 1 shows the dimensions of the Bypass Power Module (BPM) in millimeters (inches).

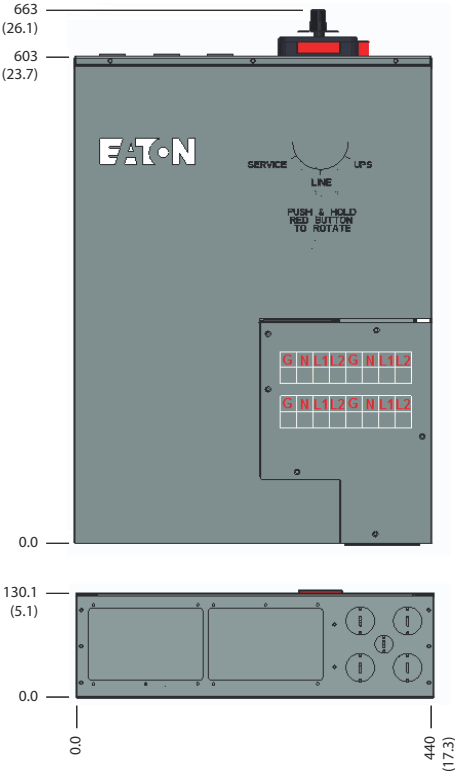
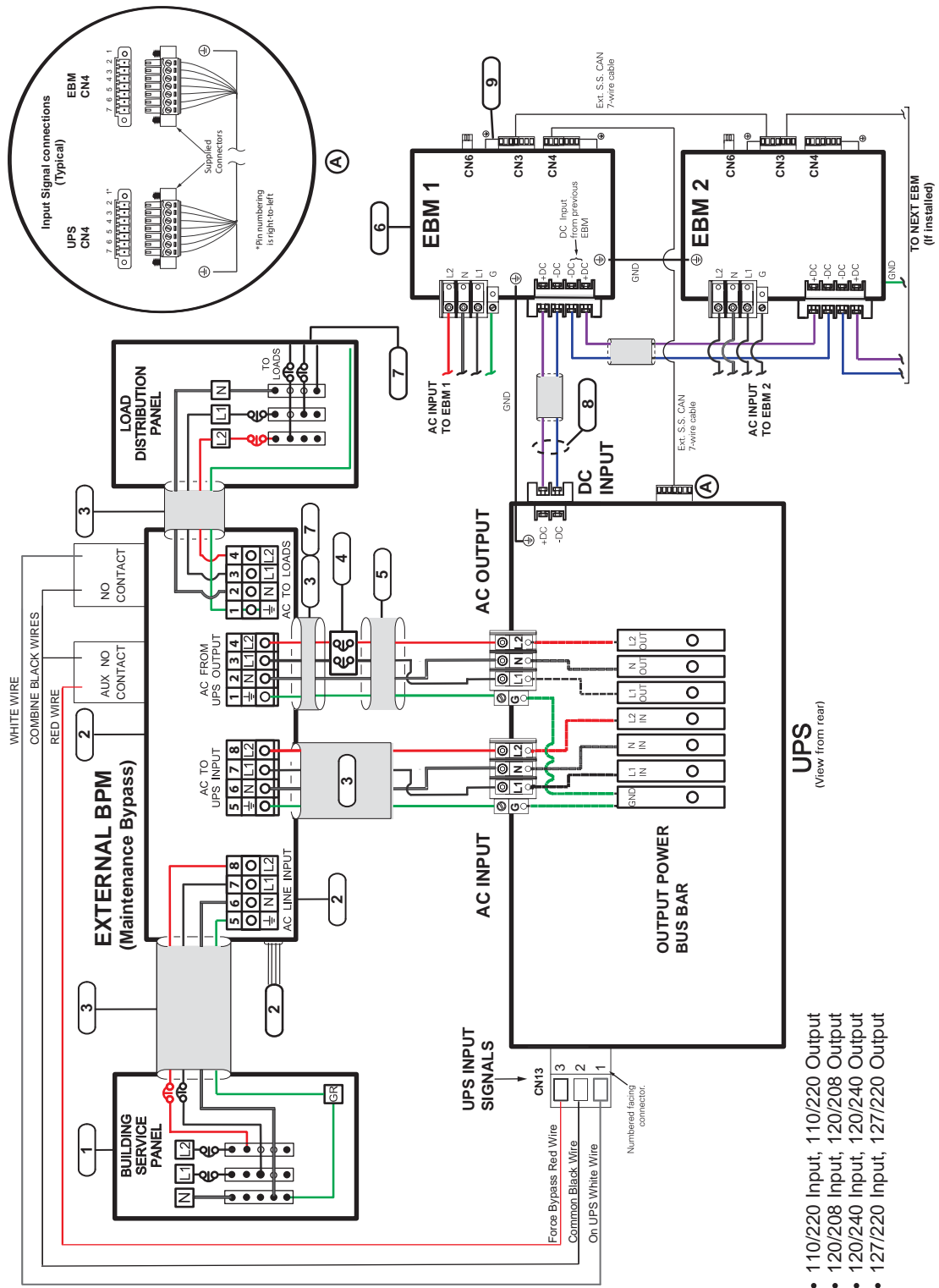
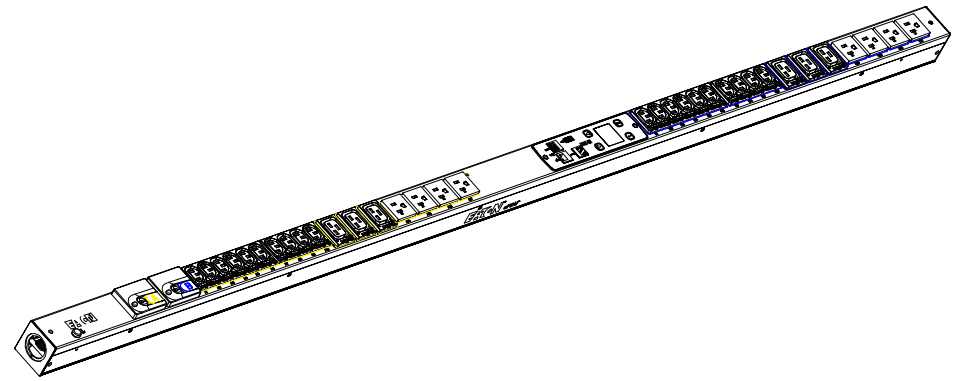
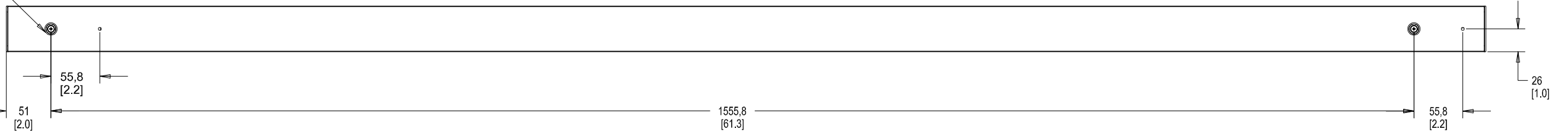
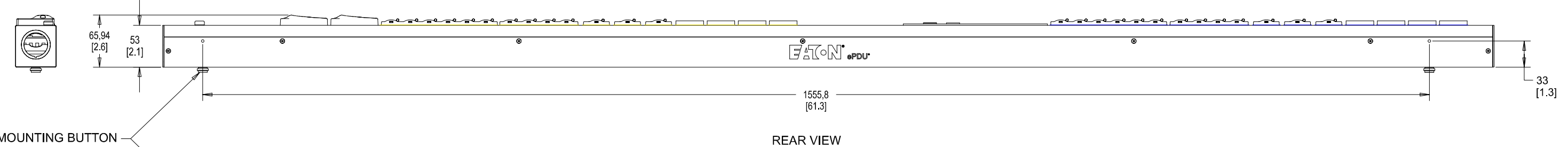
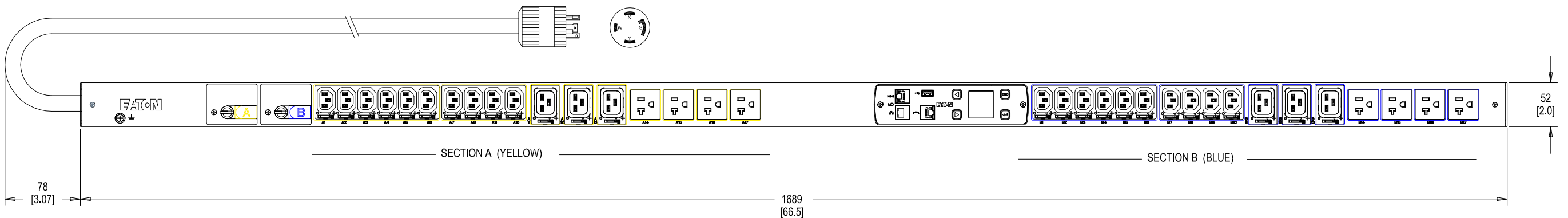


Figure 1. BPM Dimensions (in millimeters)

Figure 24. Wiring Diagram- UPS with External Bypass Switch (BPM) (L1, L2, N)

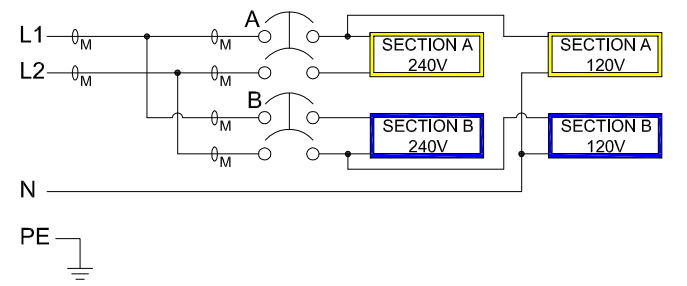


REV	ECO No.	REVISION	DR	CK	AP	AP	DATE
001	056686	ENGINEERING RELEASE	JO				24 JAN 14
002	062711	REVISED ASSY STRUCTURE	RS				26 MAR 14



EMI200-10 G3 METERED INPUT

FUNCTIONALITY	INPUT	OUTPUT	ENVIRONMENTAL
CURRENT, POWER AND ENERGY METERING FOR INPUT AND BRANCH	NEMA L14-30 PLUG 10FT 10AWG / 4C POWERCORD	(20) IEC 60320 C13 GRIP (6) IEC 60320 C19 GRIP (8) NEMA 5-20R	32° TO 140° F 0° TO 60° C
MECHANICAL	INPUT RATING	OUTPUT RATING	CERTIFICATIONS
66.50" (1689mm) LENGTH 2.05" (52mm) WIDTH 2.09" (53mm) DEPTH ALUMINUM CHASSIS, BLACK	120/240V 2W+N+PE 24A 50/60HZ	120V; 16A PER 5-20 200-240V; 15A PER C13, 16A PER C19 16A MAX PER SECTION 24A MAX PER PHASE	
CIRCUIT BREAKERS	FILTER AND SPIKE/SURGE	ACCESSORIES	CONFIGURATION
(2) 20A 2-POLE UL LISTED	NONE	INCLUDED SPK012 - INSTALLATION INCLUDED SPK013 - NETWORK OPTIONAL EMP001 - ENVIRONMENTAL PROBE	EMI3NT15JFG78A1



METRIC	THIRD ANGLE PROJECTION	EATON CORPORATION, ELECTRICAL	EATON
aPDU G3 SPECIFICATION FOR EMI200-10 <small>UNLESS OTHERWISE SPECIFIED TOLERANCES ON DIMENSIONS ARE: FINISHES: 4:12° DECIMALS: 0.0001" X, 0.0001" X, 0.0001" X, 0.0001" X HOLES: 0.013 0.0001" X, 0.0001" X, 0.0001" X, 0.0001" X DIMENSIONS ARE IN MILLIMETERS (INCHES) AND AFTER PLATING</small>			
DESIGNED BY: J. OSBORNE	DATE: 24 JAN 14	STATUS: RELEASED	SCALE: 0.400 DO NOT SCALE DRAWING OR CHANGE MANUALLY
ECO: 056686	DATE: RELEASED	PART NAME: EMI3NT15JFG78A1	SHEET: 1 OF 1
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Eaton Extended Warranty – Single Phase Products

Scope of Work

Attachment R-1

Contractor shall provide to Purchaser a return-to-factory repair or replace coverage for eligible Eaton single phase UPS and ePDU products, external battery modules/cabinets (EBM's and EBC's) and accessories. The Extended Warranty upgrades and/or extends the product's factory warranty when purchased concurrently with the product and is available in one (1) to five (5) year increments. No onsite or scheduled service is included in Extended Warranty but may be purchased separately at Contractor's scheduled service prices or Time and Material X-1 rates.

Extended Warranty covers electronics, batteries per replacement conditions below, expedited advanced exchange freight expenses between Contractor and Purchaser and 7x24 technical support. Requests for Extended Warranty claims are made by telephone to Contractor at 800/843-9433 (USA) and require the product serial number. Contractor will verify coverage eligibility, technical issue and advance exchange, if appropriate, the replacement UPS, battery or accessory. Replaced equipment may be refurbished or new, and may be of equal or greater value in situations where the covered equipment is no longer available. Purchaser must return (at Contractor's expense) the defective product to Eaton in the pre-paid return shipping box (supplied by Contractor with replacement product) within five (5) business days from the date that the replacement product is received.

1. VRLA Batteries will be considered for replacement when:
 - a. The battery voltage falls outside of its recommended operating range and fails to respond to corrective action.
 - b. The batteries internal ohmic value deviates by more than 20% from the average of all of the connected cells/units and fails to respond to corrective action.
 - c. Battery failures which are identified as having 80% or less of manufacturers rated capacity.
 - d. When evidence of electrolyte is found on the battery case/jar and repair or cleanup is ineffective.
 - e. When there is damage to the battery case/jar that is due to an internal failure.

If purchased non-concurrently, or separate from the product transaction, and Equipment has experienced a lapse in Extended Warranty, Service Agreement or Factory Warranty coverage Contractor will require Purchaser to replace internal and external batteries, if applicable, prior to Extended Warranty coverage start date.

If purchased non-concurrently, or separate from the product transaction, and Equipment has had no service history in the previous ninety- (90) days, Contractor will require a Pre-Contract Survey (PCS) performed prior to commencement of any service agreement entailing corrective maintenance coverage.

The Purchaser shall, from the commencement date of the Service Agreement, maintain the Eaton product in accordance with the published operating specifications for the product at the time of purchase. The Purchaser shall, unless otherwise specified in the Service Agreement, maintain the Battery System in strict accordance with the Battery System manufacturer's recommended maintenance guidelines.

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Start-Up Scope of Work Attachment L-2

This scope of work is shared by UPS, Eaton DC, Eaton PDU/PDR/RPP/STS, Flywheel, Non-Eaton UPS and Distributed Bypass. The following is an outline of general procedures and tests, if applicable, that are normally performed by Field Service Personnel during a standard start-up for new units or to recertify and restart a previously started UPS. All checks and processes may not be applicable to all equipment models.

Start-up does not include special entrance requirements (ex. site specific training; background / drug screening), working in confined space installations, those that require fall protection or exposure to hazardous environmental conditions. Contact your local Service management if any of these conditions apply.

UPS/PDU/RPP/STS START-UP PROCEDURE

1. VISUAL INSPECTION

- 1.1. Visually inspect all equipment for signs of shipping damage and/or foreign materials.
- 1.2. Check all battery cells for proper electrolyte levels.
- 1.3. Observe type of ventilation, room cleanliness, use of proper signs and any safety related items that may be noteworthy

2. MECHANICAL INSPECTION

- 2.1. Check internal power connections in UPS module for tightness while observing proper safety precautions.
- 2.2. Check all control wiring terminations and plugs in UPS module for tightness and/or proper setting.
- 2.3. Check to see that all factory connections, power modules, subassembly pans and legs are secure.
- 2.4. Inspect the ISBM or IOM (inspect auxiliary connections)

3. ELECTRICAL PRECHECK

- 3.1. Check system for ground faults at all power inputs and outputs
- 3.2. Check DC bus for short circuits and proper polarity.
- 3.3. Checks input and bypass power terminations for proper voltages and phase rotation inside all modules.
- 3.4. Check and adjust, if necessary, all power supply voltages.
- 3.5. Verify CTO and Serial numbers programmed into system match the equipment labels

4. INITIAL UPS, PDU ENERGIZATION

- 4.1. Verify all system annunciations are in "go" condition.
- 4.2. Energize unit(s) and verify proper DC walkup and AC phase on.
- 4.3. Check DC link holding voltage, AC output voltages and output waveforms.
- 4.4. Check final DC link voltage and inverter AC output. Adjust if required.
- 4.5. Check for proper synchronization with bypass source.
- 4.6. Check voltage differences between inverter outputs and bypass source.

5. INITIAL DC SYSTEM ENERGIZING

- 5.1. Installation of one rectifier



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- 5.2. Initial power up of equipment
- 5.3. Verification of correct voltage / polarity for rectifiers
- 5.4. Installation of all rectifiers
- 5.5. Verification of proper operation of rectifiers
- 5.6. Verification of proper operation of the system controller

6. BATTERY SET-UP

- 6.1. Determine common or separate battery set-up process and settings
- 6.2. Check for proper cell interconnections with respect to polarity throughout battery.
- 6.3. Check battery configuration matches required unit configuration (voltage, polarity, number of cells per string)

7. BRANCH CIRCUIT MONITORING SET-UP (if optionally purchased)

- 7.1. Ensure installation configuration matches application
- 7.2. Perform branch circuit breaker scheduling
- 7.3. Check voltage and current calibrations

8. OPERATIONAL INSPECTION

- 8.1. Check proper system operation in Normal Mode, Bypass Mode, and Battery Mode
- 8.2. Check system transitions between operating modes
- 8.3. Check multi-module operations
- 8.4. Verify system calibrations and adjust as necessary

9. FUNCTIONAL TEST

- 9.1. Test Battery mode
- 9.2. Simulate the loss of bypass when on battery testing
- 9.3. Perform ISBM loss of logic power testing
- 9.4. Emergency transfer testing
- 9.5. Local and Remote Emergency Power Off testing
- 9.6. Mini CSB Failure testing
- 9.7. Fan Failure Test (ONLY PERFORM IF NO LOAD IS APPLIED)
- 9.8. Building Alarms testing
- 9.9. Basic Easy Capacity testing

10. INSTALL PREDICTPULSE™ REMOTE MONITORING SERVICE

- 10.1. PredictPulse Service Description and Customer Requirements
 - 10.1.1. Contractor will provide the PredictPulse Service on subscribed Covered Equipment. The PredictPulse Service shall include alarm notifications via a dashboard, mobile application, and monthly report summarizing alarms and Equipment Data.
 - 10.1.1.1. Access to the PredictPulse Service shall be from Contractor's web portal and include Covered Equipment status, alarms, reports and service history.
 - 10.1.1.2. Contractor's obligation shall be to enable enrollment in the PredictPulse Service by Customer, validation of the PredictPulse Service, and to notify Customer contact when a critical alarm occurs.
 - 10.1.1.3. Contractor will remotely diagnose critical alarms and if appropriate, resolve emergency events as if Customer has requested Covered Equipment Service, enabling Contractor to arrive at the location of the Covered Equipment per the contracted CPM hours. If subscribed Covered Equipment has no contracted Covered



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-
- Equipment Service coverage other than the PredictPulse Service, Contractor's obligation will solely be to notify Customer contact when a critical alarm occurs.
- 10.1.1.4. Display and availability Equipment Data will vary and depend on the Covered Equipment, connectivity equipment and access to Customer provided network.
- 10.1.2. The PredictPulse Service will only be available if Customer provides and supports a CAT5 LAN/Ethernet cable connected to either a Contractor supplied wireless modem or Customer's SMTP email server or equivalent network (along with necessary network configuration information (including IP addresses) to facilitate connectivity).
- 10.1.3. Covered Equipment will continue to transmit Customer Equipment Data to Contractor until Customer disconnects or disables the network connection. Upon termination of the PredictPulse Service, Customer is responsible for disconnecting or disabling any Covered Equipment from Customer's network connection. Contractor will not be responsible for notifying or reminding Customer that it must disconnect or disable any Covered Equipment from Customer's network connection after termination of the PredictPulse Service. Contractor will continue to own the Equipment Data and not incur any liability as a result of Customer's failure to disconnect or disable any Covered Equipment from the network connection.
- 10.1.4. Customer shall register at www.predictpulseapp.eaton.com with a valid email address, self-maintain a complex password, and contact information in order to access the PredictPulse Service.
- 10.1.5. Connectivity Equipment Excluded – Customer shall be responsible for purchasing and/or upgrading compatible connectivity equipment required to support the PredictPulse Service.
- 10.1.6. Parts and labor coverage for all Covered Equipment is separate from the PredictPulse Service.
- 10.1.7. The customer shall maintain the Connectivity Equipment (UPS network communication) cards per contractor recommendations (refer to the individual UPS network communication card information). This maintenance shall include restricting access to unauthorized personnel, regularly (at least monthly) patch and apply updates/firmware updates to address vulnerabilities and verify device configurations. The customer should register for cybersecurity notifications and updates at www.eaton.com/cybersecurity.
- 10.2. Data
- 10.2.1. Unless it receives Customer's prior written consent, Contractor: (a) shall not disclose to third parties or publish Customer Equipment Data and (b) shall not intentionally grant any third-party access to Customer Equipment Data. Notwithstanding the foregoing, Contractor may disclose Customer Equipment Data as required by applicable law or by proper legal or governmental authority. Contractor shall give Customer prompt notice of any such legal or governmental demand and reasonably cooperate with Customer in any effort to seek a protective order or otherwise to contest such required disclosure, at Customer's expense.
- 10.2.2. Contractor shall own all Equipment Data and all results from processing such data, including without limitation, compilations and derivative works of such data. Contractor may use such Equipment Data for any purpose, including without limitation, for data mining, analysis and trending purposes, and may disclose Equipment Data to third parties without Customer's consent for any purpose, including without limitation, for comparison and reliability reporting.
- 10.2.3. Contractor collects Personal Data from Users of the PredictPulse Service for the purpose of allowing Eaton to provide the PredictPulse Service to Customer. Contractor does not sell Personal Data disclosed to it through the PredictPulse Service, but it may transfer such

Personal Data outside of the United States and share the information with third parties that Contractor retains to provide services on its behalf and to Contractor's sales representatives, which include third parties. In addition, Contractor may disclose Personal Data it collects as required by law, an arbitral body, a court of competent jurisdiction, a law enforcement agency, or any other government agency, and may disclose personal information it collects when it believes it is appropriate to prevent physical or financial loss or in connection with an investigation of suspected or actual illegal activity. If a User desires to withdraw its consent to Contractor's use of his/her Personal Data in connection with the PredictPulse Service, such User can submit a request to Contractor to remove his/her Personal Data from the PredictPulse Service at the following email address: iam@eaton.com or auto link <mailto:iam@eaton.com>, specifying removal of your Personal Data from the PredictPulse Service. Following receipt of such request, Contractor will remove all of such User's Personal Data from the PredictPulse Service. If a User withdraws his/her consent to Contractor's use of Customer's Personal Data as described in this Agreement, Contractor may terminate such User's Customer's access to the PredictPulse Service. To the extent that a User inputs or otherwise provides in the PredictPulse Service the Personal Data of another individual, whether or not an employee of Customer or whether or not such individual is another User of the System ("Other Individual"), Customer represents that it has obtained such Other Individual's prior written consent to: 1) allow such User to input such Other Individual's Personal Information into the PredictPulse Service and 2) the foregoing Personal Data privacy terms. Customer shall have sole responsibility for any violation of privacy laws as a result of its failure to obtain the Other Individual's prior written consent as described in the preceding sentence.

10.2.4. Contractor makes no warranty regarding, and has no obligation with respect to, the accuracy, completeness, or omissions of any Customer Equipment Data or any report, alarm, notification, or recommendation generated or not generated by the PredictPulse Service based on the Customer Equipment Data. Customer must use reasonable judgment in interpreting this data and information and contact his or her local Eaton sales representative or Contractor Technical Support with any questions.

10.2.5. Customer recognizes and agrees that hosting data online involves risks of unauthorized disclosure or exposure and that, in accessing and using the PredictPulse Service, Customer assumes such risks. To the extent permitted by law, Contractor offers no representation, warranty, or guarantee that Customer Equipment Data and/or Personal Data will not be exposed or disclosed through errors or the actions of third parties.

10.2.6. Customer recognizes and agrees that the Customer Equipment Data collected from the Customer Equipment sent to PredictPulse is unencrypted and contains potentially (non-personal) critical data (e.g. model number, serial number, mac address, and event information). Contractor assumes the customer will restrict unauthorized physical and logical access to the field equipment, network equipment, email servers, and other access to the data.

10.3. Customer Restrictions

10.3.1. Customer shall not: (a) use the PredictPulse Service for any purpose other than for its intended purpose or otherwise misuse the PredictPulse Service; (b) provide PredictPulse Service passwords or other log-in information to any third party; (c) share non-public PredictPulse Service features or content with any third party; (d) access the PredictPulse Service in order to build a competitive product or service, to build a product using similar

ideas, features, functions or graphics of the PredictPulse Service, or to copy any ideas, features, functions or graphics of the PredictPulse Service; (e) attempt to penetrate or disable any security system, or intentionally distribute a computer virus, launch a denial of service attack, or in any other way attempt to interfere with the functioning of the PredictPulse Service, including without limitation any computer, communications system, or website associated therewith; or (f) attempt to access or otherwise interfere with the accounts of other users of the PredictPulse Service. In the event that it suspects any breach of the requirements of this Section 10.3.1, including without limitation by Users, Contractor may suspend Customer's use of the PredictPulse Service without advanced notice, in addition to such other remedies as Contractor may have. This Agreement does not require Contractor to take any action against Customer or any User or other third party for violating this Section 10.3.1 or this Agreement, but Contractor is free to take any such action it sees fit.

11. INSPECTION COMPLETION

- 11.1. Ensure dead fronts and door panels are reinstalled
- 11.2. System will be left in normal mode when environmental controls are operational
- 11.3. Conduct on-site customer system operation training
- 11.4. Final EEPs, calibration EEPs, meters report, service log, and configuration reports will be downloaded and stored
- 11.5. Startup data forms and reports are available as required.
- 11.6. Clean up tools and debris around the system.

FLYWHEEL UNITS ONLY (Varies by Flywheel type)

1. MECHANICAL INSPECTION

- 1.1. Check internal power connections in Flywheel module for tightness while observing proper safety precautions
- 1.2. Check all control wiring terminations and plugs in Flywheel module for tightness and/or proper setting
- 1.3. Check to see that all subassembly heat sinks are secure
- 1.4. Verify bearing and hardware installation

2. ELECTRICAL PRE-CHECK

- 2.1. Check Flywheel system for grounds
- 2.2. Check DC bus for short circuits
- 2.3. Check power terminations for proper voltages
- 2.4. Check and adjust, if necessary, all power supply voltages
- 2.5. Check all lamp test functions
- 2.6. Verify auxiliary power supply
- 2.7. Check cooling fans
- 2.8. Verify internal operations

3. INSTALLATION VERIFICATION (power system configuration dependant on Flywheel type)

- 3.1. Verify power wiring to and from the UPS system has been properly installed
- 3.2. Verify correct polarity of all Flywheel DC cabling to the UPS and battery *
- 3.3. Verify grounding from Flywheel to the UPS cabinet, and all battery cabinets *
- 3.4. Ensure that the auxiliary power ground is on the same ground plane as the UPS and Flywheel



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4. INITIAL UNIT ENERGIZATION

- 4.1. Verify all system annunciators are in "go" condition
- 4.2. Energize unit and verify proper DC walkup and Flywheel RPM
- 4.3. Verify that vacuum is adequate and stable

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Eaton 9PXM Rack Installation Service Scope of Work Attachment L-12

The following is an outline of general procedures, if applicable, that are normally performed by Field Service Personnel prior to a standard start-up for 9PXM UPS models (non-preassembled system products). Start-up service is not included in 9PXM Rack Installation Service (may be purchased separately and described in the Eaton Startup SOW Attachment L-2). "Rack Installation" includes inserting the 9PXM chassis and/or mounting in to a customer supplied IT equipment rack. All checks and processes may not be applicable to all equipment models.

Note: Customer is responsible for inside delivery of all equipment, removal/disposal of existing equipment, suitable equipment environment (e.g., clearances, floor loading, and temperature), installation of any power and battery modules (and connectivity cards) and arranging a licensed electrician to provide all necessary input power and any hardwired output connections and locating all equipment in the site area where the equipment is to be started. Suitable equipment racks may be supplied either by Eaton or customer and be compatible with the customer ordered system, accessories and cables for the intended application and site location; this service does not apply any power nor validate settings.

1. UNPACK

- 1.1. Unpack and/or unload UPS cabinet and accessories
- 1.2. Removal of all packing materials to customer disposal location
- 1.3. Roll equipment from pallet to final position and anchor per installation manual (if applicable)

2. VISUAL INSPECTION

- 2.1. Verify that all equipment and accessories listed in packing list are included.
- 2.2. Visually inspect all equipment and accessories for signs of damage and/or foreign materials.
- 2.3. Observe type of ventilation, room cleanliness, use of proper signs and any safety-related items that may be noteworthy.

3. INSTALL UPS IN SUITABLE IT EQUIPMENT RACK OR ROOM

- 3.1. Install 9PXM Rackmount Tray in bottom of customer rack.
- 3.2. Install Rack Mount Ears on 9PXM chassis.
- 3.3. Disengage 9PXM Chassis from caster base and transition onto rackmount tray in customer rack. Secure Rackmount Ears using supplied hardware.
- 3.4. If optionally purchased and performed during the 9PXM UPS rack installation, install a 9PXM external battery cabinet (EBC-8-slot or EBC-12-slot) in to a customer rack using supplied hardware.

Eaton 9PXM UPS

A scalable, modular, flexible solution for a wide range of applications.

Plan > Grow > Manage



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Highest level of reliability.

Lowest cost of ownership.

The Eaton® 9PXM UPS is a scalable, modular, flexible solution that combines the highest level of reliability with the lowest cost of ownership in the 4–20 kVA range. The 9PXM enables you to build a power solution specific to your needs and to expand redundancy and runtime as your needs change.

The plug-and-play power and battery modules are user replaceable so you can add them as needed without a service call or having to put a redundant system in bypass. With its low initial investment, online double-conversion technology, Eaton ABM® technology and high efficiency mode, you never have to compromise reliability for efficiency.



Easy hot-swappable power and battery modules

The Eaton 9PXM: A versatile UPS

The versatile 9PXM is well suited for both the IT marketplace and for industrial/commercial applications. The 9PXM's high power rating, small footprint and easy rack conversion make an ideal solution for an array of data center applications. The design features offer harmonious compatibility with 4-post or high density racks, PDU and network gear for seamless integration into an IT infrastructure.

IT applications include:

Small / medium data center

Colocation data center

Edge data center

Network closets

The 9PXM is rugged enough to stand up to mission-critical applications, and its small footprint, customizable output options and N+X redundancy are valuable features in the retail, financial and government sectors.

Industrial/commercial applications include:



Mission critical operations

- Small computer rooms
- Server farms
- 911 call centers



Retail and financial

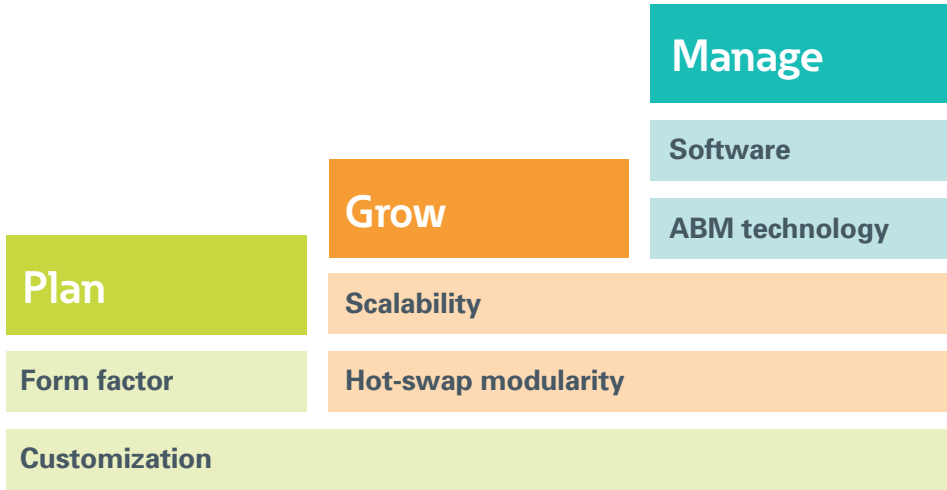
- POS equipment
- Banking automaton software systems
- Retail back office inventory management systems



Government

- Voice and data networks/closets
- Government computer rooms
- School system computer rooms/classrooms

Build a power solution that is specific for your needs.



Intelligent Power Manager

Automate and control

IPM is an on-site policy-based automation software platform that triggers advanced remediation actions—like shedding non-critical workloads to extend battery runtime—during a power event to ensure that critical equipment remains running as long as possible.

In other words, IPM automatically takes action when it notices something awry—once configuration and action policies are set, IPM does the work. This increases uptime and saves time and money by allowing you to remotely solve power issues.

[Learn more at Eaton.com/IPM](http://Eaton.com/IPM)

Flexibility for every application.



- 1 Form factor:** Two tower sizes convertible to rackmount.
- 2 Configurable back panel:** Build-to-order configurations provide receptacle output options.
- 3 Redundancy:** N+X redundancy for power and logic eliminates system-level single point of failure.
- 4 Scalability:** Add power and battery modules to scale up power rating or add redundancy.
- 5 Flexibility:** Add battery modules to any slot for extended backup runtime in a single unit cabinet.
- 6 Hot-swappable modules:** Replace lightweight power and battery modules without shutting down.



Power module



Pair of 9PXMBAT battery modules



Visual Power Manager

Monitor IT power infrastructure

VPM excels at remotely monitoring large and distributed deployments of power devices. The easy-to-use, visual interface provides a live floorplan view with alarm notifications for up-to-the-minute health status on your power infrastructure.

Use VPM to better visualize your power infrastructure allowing you to take action as needed to maintain continuous uptime of your critical applications.

[Learn more at Eaton.com/VPM](http://Eaton.com/VPM)

Visual Capacity Optimization Manager

Monitor IT and facilities power infrastructure

VCOM, our data center system optimization (DCSO) platform, provides our greatest level of business intelligence by monitoring both IT and facilities power infrastructure which makes it ideal for large or multisite management.

VCOM features capabilities designed to reduce data center operational expenses, improve system and application reliability and mitigate risk through data analysis.

[Learn more at Eaton.com/VCOM](http://Eaton.com/VCOM)

Designing a 9PXM

You can select a configure-to-order (CTO) number to reflect the cabinet form factor and output configurations.

As you select the options needed, they become part of the CTO number. Order power modules, battery modules, external battery cabinets, bypass switches and other external options as separate line items. Part numbers for external options are provided in the CTO guide found on page 6.

Output connection configuration is designated by five digits within the unit CTO number.

These five digits allow selection of the type and quantity for up to a maximum of five different types of receptacles. For hardwired output, use AAAAA for a 12-slot cabinet and AAXXX for an 8-slot cabinet.

- **8-slot cabinet** maximum 2-outlet output panels
- **12-slot cabinet** maximum of 5-outlet output panels
- **Outlet quantities per panel are pre-set**
- **Enter desired outlet configuration from bottom to top** (digit 9 of the CTO number will be installed in the bottom outlet panel, digit 10 in the panel above it, etc)
- **For an 8-slot cabinet**, digits 9–11 will always be XXX (ex: BE XXX)

How to build your CTO number

9PXM08AA XXX

Base unit		Cabinet style		Output connections		
Base model – (digits 1-4)	CTO order code	Cabinet size – (digits 5-6)	CTO order code	Options – (digits 7-11)	Outlets per panel	CTO order code
9PXM	9PXM	8-slot cabinet	08	Blank	0	A
		12-slot cabinet	12	5-20R	4	B
				C13	8	C
				C19	4	D
				L5-20R	2	E
				L6-20R	2	F
				L5-30R	2	G
				L6-30R	2	H
				L14-30R	2	J
				IEC309	1	K

Scalable to 20 kVA (N+1)

- 8-slot is scalable 16 kVA in a 14U cabinet
- 12-slot is scalable to 20 kVA (N+1) in a 21U cabinet

Variety of power distribution options

- Hardwire and connect with an Eaton rack PDU
- Create custom outlet configuration for output
- Bypass power module configured for any application
- External battery cabinet for extended runtime

Design benefits

- Easy conversion from tower to rackmount
- Single frame cabinet
- Hot-swappable power and battery modules
- ABM technology increases battery service life by 50 percent.
- Two communications ports for system monitoring
- High efficiency mode increases efficiency from 94 to 97 percent



8-slot cabinet is scalable to 16 kVA in a 14U cabinet



12-slot cabinet is scalable to 20 kVA (N + 1) in a 21U cabinet

External options

External options are ordered as separate line items.

Power modules

Type	Description	Catalog number
Split-phase 110/120, 120/208, 120/240, 127/220V	4 kVA / 3.6 kW	9PXMSPPM

Batteries and battery accessories

Description	Catalog number
Battery module (two required per slot)	9PXMBAT
20-amp optional charger module ¹	9PXMCHGR
8-slot standard external battery enclosure	9PXM08SEBM
12-slot standard external battery enclosure	9PXM12SEBM
8-slot connected external battery enclosure	9PXM08SEBM-C
12-slot connected external battery enclosure	9PXM12SEBM-C

¹ Same form factor as power module

External bypass power module

Cabinet description	Receptacle configuration	Catalog number
125A	None	BPM125HW
	(6) L14-30R	BPM125AR
	(3) L14-30R, (3) L6-20R	BPM125BR
	(6) C19, (3) L14-30R	BPM125CR
	(3) 5-20R, (3) L14-30R	BPM125DR
	(3) 5-20R, (3) L6-30R	BPM125ER
	(3) L6-30R, (3) L6-20R	BPM125FR

Other external options

Description	Catalog number
Current rackmount kit	9PXM RK2
Legacy rackmount kit	9PXM RK
Floor anchoring kit	9PXM FAK

Communication options

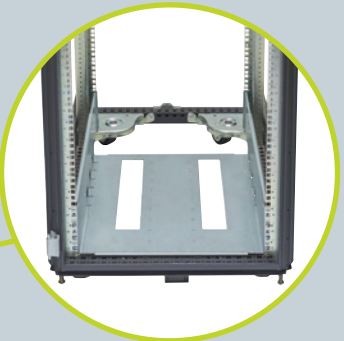
Description	Catalog number
Network card	Network-M2
Relay card	Relay-MS
Modbus card	Modbus-MS



Smart EBM technology identifies batteries automatically



Protect against downtime during equipment maintenance with an external bypass power module



Convert from tower to rackmount with an easily installed rack kit



2 mini-slot ports for options using Network-M2 gives access to Eaton's software offerings

9PXM pre-configured systems

Eaton 9PXM cabinets can be ordered using pre-configured catalog numbers or by using the configure-to-order (CTO) process. Outlined in the table below, pre-configured catalog numbers include a cabinet with power modules, battery modules and outlet configurations appropriate for the power rating and input/output configurations. To order options not offered by pre-configured catalog numbers, please see page 5.

Pre-configured systems with hardwire input and output						
Catalog number	Power rating – split-phase	Input connection	Output connection	Included items	Description	Quantity
9PXM8S4K	4 kVA expandable to 12 kVA (N+X)	Hardwired	Hardwired	9PXM08AAXXX	Eaton 9PXM tower UPS 8-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	1
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	2
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1
9PXM8S8K	8 kVA expandable to 12 kVA (N+X)	Hardwired	Hardwired	9PXM08AAXXX	Eaton 9PXM tower UPS 8-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	2
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	4
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1
9PXM8S12K	12 kVA expandable to 12 kVA (N+1)	Hardwired	Hardwired	9PXM08AAXXX	Eaton 9PXM tower UPS 8-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	3
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	6
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1
9PXM8S16K	16 kVA	Hardwired	Hardwired	9PXM08AAXXX	Eaton 9PXM tower UPS 8-slot chassis – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	4
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	8
				Network-M2	Network-M2 card, mini slot, ethernet, sensor	1
9PXM12S8K	8 kVA expandable to 20 kVA (N+X)	Hardwired	Hardwired	9PXM12AAAAA	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	2
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	4
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1
9PXM12S12K	12 kVA expandable to 20 kVA (N+X)	Hardwired	Hardwired	9PXM12AAAAA	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	3
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	6
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1
9PXM12S16K	16 kVA expandable to 20 kVA (N+X)	Hardwired	Hardwired	9PXM12AAAAA	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	4
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	8
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1
9PXM12S20K	20 kVA expandable to 20 kVA (N+1)	Hardwired	Hardwired	9PXM12AAAAA	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	5
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	10
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1
Pre-configured systems with hardwire input						
Catalog number	Power rating – split-phase	Input connection	Output connection	Included items	Description	Quantity
9PXM8S4K-PD	4 kVA expandable to 12 kVA (N+X)	Hardwired	(4) 5-20R (2) L6-30R	9PXM08BHXXX	Eaton 9PXM tower UPS 8-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	1
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	2
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1
9PXM8S8K-PD	4 kVA expandable to 12 kVA (N+X)	Hardwired	(4) 5-20R (2) L6-30R	9PXM08BHXXX	Eaton 9PXM tower UPS-8 slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	2
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	4
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1
9PXM12S8K-PD	8 kVA expandable to 20 kVA (N+X)	Hardwired	(8) 5-20R (2) L6-20R (2) L6-30R (2) L14-30R	9PXM12BBFHJ	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	2
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	4
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1
9PXM12S12K-PD	12 kVA expandable to 20 kVA (N+X)	Hardwired	(8) 5-20R (2) L6-20R (2) L6-30R (2) L14-30R	9PXM12BBFHJ	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	3
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	6
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1
9PXM12S16K-PD	16 kVA expandable to 20 kVA (N+X)	Hardwired	(8) 5-20R (2) L6-20R (2) L6-30R (2) L14-30R	9PXM12BBFHJ	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	4
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	8
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1
9PXM12S20K-PD	20 kVA expandable to 20 kVA (N+1)	Hardwired	(8) 5-20R (2) L6-20R (2) L6-30R (2) L14-30R	9PXM12BBFHJ	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	5
				9PXMBAAT	Eaton 9PXM battery module (2 per slot)	10
				Network-M2	Network-M2 card, mini-slot, ethernet, sensor	1

9PXM battery backup times (in minutes)

Battery modules (part number 9PXMBAT).

You must order two battery modules to occupy one slot.

Load													
kVA	kW	2	4	6	8	10	12	14	16	18	20	22	24
4 kVA	3.6 kW	6	17	28	39	52	65	78	92	107	121	136	152
8 kVA	7.2 kW		6	11	17	22	28	33	39	45	52	58	65
12 kVA	10.8 kW			6	9	13	17	20	24	28	31	35	39
16 kVA	14.4 kW				6	8	11	14	17	19	22	25	28
20 kVA	18.0 kW					6	8	10	12	14	17	19	21
kVA	kW	26	28	30	32	34	36	38	40	42	44	46	48
4 kVA	3.6 kW	167	183	200	216	233	250	267	284	302	320	338	356
8 kVA	7.2 kW	71	78	85	92	99	107	114	121	129	136	144	152
12 kVA	10.8 kW	43	48	52	56	60	65	69	74	78	83	87	92
16 kVA	14.4 kW	30	33	36	39	42	45	49	52	55	58	61	65
20 kVA	18.0 kW	23	25	28	30	32	35	37	39	42	44	47	49
kVA	kW	50	52	54	56	58	60	62	64	66	68	70	72
4 kVA	3.6 kW	374	393	411	430	449	468	487					
8 kVA	7.2 kW	160	167	175	183.4	192	200	208	216	224	233	241	250
12 kVA	10.8 kW	97	102	107	111	116	121	126	131	136	141	147	152
16 kVA	14.4 kW	68	71	75	78	82	85	89	92	96	99	103	107
20 kVA	18.0 kW	52	54	57	59	62	65	67	70	73	75	78	81
kVA	kW	74	76	78	80	82	84	86	88	90	92	94	96
4 kVA	3.6 kW												
8 kVA	7.2 kW	258	267	276	284	293	302	311	320	329	338	347	356
12 kVA	10.8 kW	157	162	16	173	178	183	189	194	200	205	211	216
16 kVA	14.4 kW	110	114	118	121	125	129	133	136	140	144	148	152
20 kVA	18.0 kW	84	87	89	92	95	98	101	104	107	109	112	115
kVA	kW	98	100	102	104	106	108	110	112	114	116		
4 kVA	3.6 kW												
8 kVA	7.2 kW	365	374	383	393	402	411	421	430	440	449		
12 kVA	10.8 kW	222	227	233	238	244	250	256	261				
16 kVA	14.4 kW	156	160	163	167	171	175	179					
20 kVA	18.0 kW	118	121	124	127	130	133						

Battery runtimes are approximate and may vary with equipment, configuration, battery age, temperature, etc.

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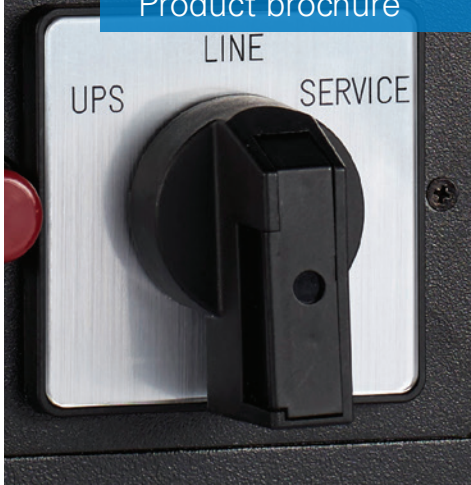
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To learn more, visit [Eaton.com/9PXM](https://www.eaton.com/9PXM)

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Product brochure



Eaton Bypass Power Module (BPM)



Built to be a flexible solution for IT environments, Eaton's BPM can be wall-mounted to conserve valuable space

Power distribution for flexible infrastructure

Eaton's Bypass Power Module (BPM) is a combined maintenance bypass (MBP) and power distribution unit (PDU) for centralized UPS designs. By combining these two functionalities, the Eaton BPM increases reliability and flexibility while decreasing electrical installation costs. Compatible with Eaton's 9170+, 9155 and 9PX UPS models, the BPM is an ideal solution for customers looking to achieve a flexible, fully-rackmounted IT environment.

The need for maintenance bypass

While a centralized UPS can provide enormous value over distributed design, power distribution and reliability become more critical to the infrastructure plan. Because they are hardwired, UPSs over 6 kVA almost always require a MBP to provide a means of directly connecting utility power to IT equipment. MBP functionality helps keep critical loads running—even in the event of scheduled UPS preventive maintenance, a service event or failure.

Simplifying power distribution

In addition to a bypass, centralized systems also need a means to distribute over 6 kW of power from the UPS to connected equipment. This can pose additional challenges for both IT managers and their facilities teams. A traditional, centralized design may require a panelboard, wiring and conduit, not to mention the costs associated with electrical installation. Distribution can be even more complicated when installing the UPS next to—or inside of—an IT enclosure. By combining the MBP and PDU functionalities, the Eaton BPM not only improves system reliability and increases flexibility, but also drastically reduces electrical installation costs requiring this type of solution.

Improving flexibility and management

Unlike traditional MBP systems, a Bypass Power Module comes equipped with local outlets to enable an IT manager to add, remove or reconfigure PDUs throughout the lifecycle of the installation. This makes the infrastructure more apt to handle the addition of a new rack, a change of IT equipment with higher power ratings or the reconfiguration of enclosures to improve airflow than traditional, conduit-based designs. Integrating a BPM into an existing solution ensures an environment will be prepared for future growth and change.



Powering Business Worldwide

Technical specifications

Bypass Power Module

Catalog number	Description	Input	Output	Dimensions (HxWxD, in.)
BPM125HW	125A BPM HW	Hardwired	Hardwired	5.1 (3U) x 17.3 x 25.6
BPM125AR	125A BPM	Hardwired	(6) L14-30R + Hardwired	5.1 (3U) x 17.3 x 25.6
BPM125BR	125A BPM	Hardwired	(3) L14-30R + (3) L6-20R + Hardwired	5.1 (3U) x 17.3 x 25.6
BPM125CR	125A BPM	Hardwired	(3) L14-30R + (6) C19 + Hardwired	5.1 (3U) x 17.3 x 25.6
BPM125DR	125A BPM	Hardwired	(3) L14-30R + (6) 5-20R + Hardwired	5.1 (3U) x 17.3 x 25.6
BPM125ER	125A BPM	Hardwired	(3) L6-30R, (6) 5-20R + Hardwired	5.1 (3U) x 17.3 x 25.6
BPM125FR	125A BPM	Hardwired	(6) L6-30R + Hardwired	5.1 (3U) x 17.3 x 25.6

Note: "R" models include four-post rail kit; 125A "HW" model does not include rail kit.



Rear panel of Eaton's BPM125ER model



Bypass Power Module shown here with Eaton's 9PX6KSP UPS model

For additional information on Eaton's Bypass Power Module, visit Eaton.com/BPM

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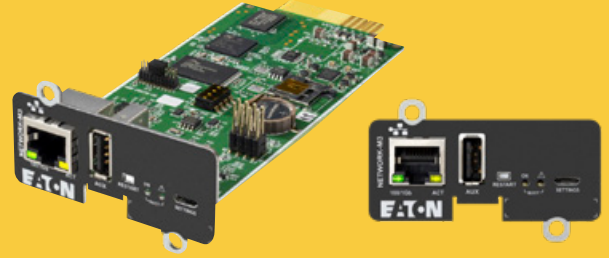
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Eaton Gigabit Network Card



Enhanced capabilities, unmatched security

Eaton's Gigabit Network Card (Network-M3) UPS connectivity device expertly blends comprehensive power management with market-leading cybersecurity. With a zero-trust architecture and customizable firewall, it reliably shields mission-critical systems in medium-sized and enterprise IT networks. The Gigabit Network Card is compatible with multiple Eaton power management software solutions, allowing extensive automation and remote management and control that shortens response times to power issues. The Gigabit Network Card gives IT managers actionable intelligence for proactively addressing power problems before they turn into downtime, and for maximizing the efficiency of their power operations.

- **Zero-trust architecture** minimizes cybersecurity vulnerabilities through hardware *root of trust*, enabling secure boot and complete chain of trust
- **Zero-touch provisioning** automatically configures network cards faster, saving time exponentially in large-scale deployments
- **Brightlayer Data Centers suite** software can monitor and manage fleets of Gigabit Network Cards, enabling automated actions during power events, including graceful shutdown and reallocation of virtual machines to protect data and preserve business continuity
- **User-configurable firewall** reduces an organization's attackable surface area and helps meet specific network/security compliance requirements
- **REST API** allows organizations to easily integrate the network card with native systems and automate M2M interactions

Technical specifications¹

Function	Web/SNMP communications
Hardware compatibility (global list)	UPS: 5P, 5PX, 5PX G2, 5SC Rack, 9PX, 9PXM, 9SX, 9130, FERRUPS FX, 9E, 93PS (fw 2.50->), 91PS, 91PS Monoblock, 93E 15-80 EMEA (fw 8.00.01->), 93E G2 EMEA (fw 4.0.20->) PDU: EATS115, EATS120, EATS220
Network compatibility	IPv4/v6, TLSv1.2, HTTP(S)v1.1, NTP, SMTP(S), BOOTP/DHCP, SSH, SysLog(S), LDAP, AD, RADIUS
Catalog number	Network-M3
Protocol support	HTTPS1.1, MQTTS, TLS1.2, SNMPv1, SNMP v3, NTP, SMTPS, BOOTP/DHCP, CLI, SSH, ARP and Syslog
UPS slot type	Mini-slot
Common connectors	Ethernet 10/100/1000BaseT, USB for accessories (ex: Environmental Monitoring Probe), USB configuration port
Temperature and humidity monitoring	Yes. Requires Eaton Environmental Monitoring Gen 2
Supported software	Brightlayer Data Centers software suite: Data Center Performance Management (DCPM), Distributed IT Performance Management (DITPM), Visual Power Manager (VPM), Intelligent Power Manager (IPM) and Visual Capacity Optimization Manager (VCOM); for monitoring service software: PredictPulse (Americas) or Cyber Secured Monitoring (CSM, for EMEA)
Supported MIB	MIB II – Standard IETF UPS MIB (RFC 1628) – Eaton xUPS MIB
Supported browsers	Chrome, Edge
Local language support	English, French, German, Italian, Spanish, Chinese Simplified, Chinese Traditional, Japanese
Operating temperature	32 to 104° F (0 to 40° C)
Operating humidity	90% RH max. without condensation
Power input	5 V – 12 V
Current consumption	500/1000mA max. depending on UPS
Dimensions (H x W x D)	5.2 x 2.6 x 1.7 in. (132.08 x 66.04 x 43.18 mm)
Weight	2.3 oz. (65 g)
Regulatory	Same as UPS

Firmware updates for the Gigabit Network Card are free of charge and require no support contract.

Optional monitoring probe

Connect multiple environmental sensors to your Gigabit Network Card with Eaton's Environmental Monitoring Probe (EMP) Gen 2 (EMPDT1H1C2). This probe provides data on the temperature and humidity in your IT installation, as well as dry-contact monitoring. It can be daisy-chained (up to 3 per host), allowing multiple sensor connections to a single host.



Eaton Gigabit Network Card installed in a UPS

For more information, please visit:
[Eaton.com/Network-M3](https://www.eaton.com/Network-M3)

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Eaton Environmental Monitoring Probe Gen 2

The Eaton Environmental Monitoring Probe (EMP) Gen 2 (EMPDT1H1C2) is a second-generation environmental monitoring probe for the Eaton Gigabit Network Card and Eaton rack PDUs including G3 (firmware 4.x or later), G3HD and G3+. The new EMP maintains all the functionality of the previous generation of sensors (temperature, humidity and dry-contact monitoring) while adding the ability to be daisy-chained (up to 3 per host), allowing multiple sensors to connect to a single host. For optimum air intake measurement within an enclosure, the EMP Gen 2 provides tie wrap mounting options for front and rear door perforation to specifically measure air flow at the intake point. This enhances the richness of rack-level environmental data for the top, middle and bottom of the rack.

Technical specifications¹

Eaton Environmental Monitoring Probe Gen 2

Type	Environmental monitoring device
Compatible with	Network-M2 and Eaton rack PDUs including G3 (firmware 4.x or later), G3HD and G3+
Mounting options	The EMP Gen 2 includes bottom and side mounting capabilities for both UPS and PDU installation – see diagram below
Sensor capability	Temperature, humidity and two dry-contact sensors for expansion
Measurement accuracy	Measure temperatures from 0°C to 70°C with an accuracy of $\pm 2^\circ\text{C}$ and relative humidity from 10% to 90% with an accuracy of $\pm 5\%$
Catalog number	EMPDT1H1C2
Dimensions (H x W x D)	2.26 x 1.48 x 1.15 in. (57.6 x 37.6 x 29.3 mm)
Weight	1.19 oz. (34 g)

1. Due to continuing improvements, specifications are subject to change without notice.



Eaton EMP Gen 2 installed on UPS



Eaton EMP Gen 2 daisy chained on rack PDU

Mounting options

- 1 Nylon fastener location
- 2 Tie wrap holes
- 3 Magnets
- 4 Keyholes



Powering Business Worldwide

Install, activate and accessorize

Each Eaton EMP Gen 2 sensors can support up to two additional input contact sensor devices per module, for a total of six additional sensors per rack. Stay informed and reduce risk in your application by receiving environmental notifications and automating action through the Eaton Intelligence Platform for power management software. Additional sensors are sold separately.

Product snapshot

- **Measure** ambient temperature and humidity at the rack level
- **Monitor** the status of up to six additional contact devices/sensors
- **Display** real-time and historical status of all sensors via the intranet or Internet
- **Stay informed** of alarms via email notification
- **Act** before problems affect sensitive equipment
- **Aggregate real-time information** via EMP Gen 2 sensor

Install and activate quickly

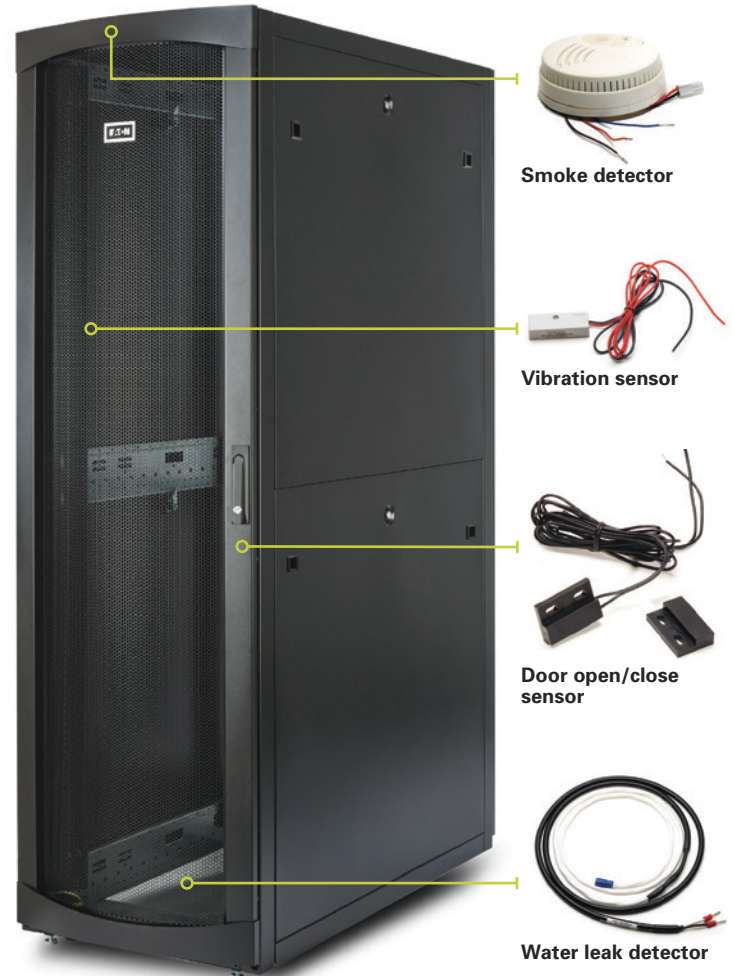
The Eaton EMP Gen 2 sensor easily mounts within an enclosure via the four available mounting options. Nylon fasteners, tie wraps, magnets and keyhole/screw mounting options provide the versatility required to mount the sensor within any application. Once mounted, simply connect directly to your rack PDU or UPS network card and begin setting up your notification parameters.

Streamline administration via sensor consolidation

Utilizing the EMP Gen 2 sensor as a hub, allows users to directly connect the door contact sensor, water leak detection sensor, vibration sensor and smoke detector via the available dry-contact sensors on the probe. Stay informed 24/7 about what is happening at the individual rack level, rather it be security or environmental concerns.

Eaton EMP Gen 2 sensor accessories	Part number
Water leak detector, 3 ft.	103005780
Water leak detector, 12 ft.	103005894
Door contact sensor	103005781
Vibration sensor	103005782
Smoke detector/alarm (110 Vac, NEMA 5-15)*	103005890
Smoke detector/alarm (220 Vac, IEC C13)*	103005779
Power supply, 120 Vac (US)	10300578
Power supply, C13/C14 adapter cable (100-250 Vac, 50/60 Hz)	103005895

* Power supplies required in addition to smoke detector/alarm option part number



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Eaton ePDU G3

Basic and Metered Input



Powering Business Worldwide

Eaton's third-generation technology for power distribution

The new Eaton® ePDU® G3 platform provides best-in-class power distribution, enabling data center and information technology (IT) managers to effectively monitor and manage their rack environments. Featuring Eaton's third-generation (G3) ePDU technology, ePDU G3 is easy to install and reduces operating costs while increasing reliability. With a host of unique and state-of-the-art features for both Basic and Metered Input ePDUs, ePDU G3 sets the standard for power management in a wide range of key applications.

ePDU G3 key technology features	Basic (BA)	Metered Input (MI)
IEC outlet grip plug retention	•	•
±1% billing grade accuracy		•
Color-coded outlet sections	•	•
Advanced LCD pixel display		•
Hot-swap meter		•
Low-profile form factor	•	•
High operating temperature	•	•
Daisy chain of IP addresses		•
Ease of installation	•	•

Key applications

Designed for IT environments, ePDU G3 is available in a variety of plug and outlet configurations, including both 120 and 200-240 volt configurations. Power distribution is needed in racks to properly connect servers, switches and other IT equipment.

Small / medium business

- 120V and lower kVA options
- Economical Basic or Metered Input
- Local pixel LCD display for onsite management

Enterprise data centers

- 208V three phase up to 17 kW for high density
- Network monitoring of power usage and capacity
- Variety of outlet configurations

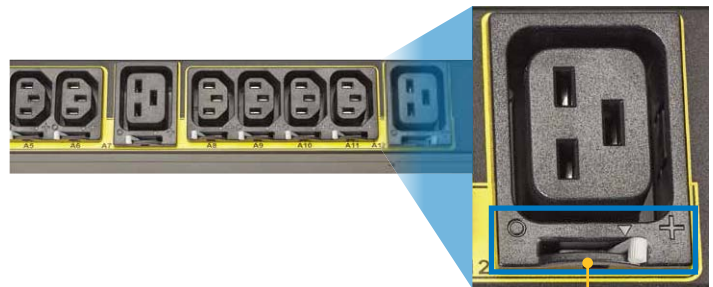
Billing grade accuracy



ePDU G3 provides one percent revenue-grade power monitoring for higher accuracy in department billing or collocation data centers. You are able to effectively measure power usage to all outlets and identify open capacity, resulting in full-power utilization. Utility rebate programs also require measurements that meet revenue-grade standards.

Outlet grip plug retention

Eaton's new patented IEC outlet grip secures plugs in place with a lever actuated grip that's integrated into each outlet. Once the levers click into the grip position, the plugs are secured from accidental disconnect due to bumps or vibrations. Unlike competitor solutions, the new outlet grip eliminates the need for special power cords that can increase purchase prices by \$200 to \$300.



O is unlocked,
+ is grip engaged



Color-coded outlet sections

Each color-coded outlet section matches a corresponding circuit breaker in the new ePDU G3 models. This coding allows you to easily identify which circuit breaker feeds which outlets, and prevents unbalanced loading that could trip a breaker.



Advanced LCD pixel display

The new ePDU G3 LCD pixel display simplifies local setup and trouble shooting. It also allows you to view voltage, power, total input, meters, LCD orientation and alarm history. In addition, the menu-driven display changes from blue to amber during an alarm situation, visually alerting you of a problem.

ePDU G3's advanced LCD pixel display



Local buttons allow for easy menu navigation and simplify setup

Hot-swap eNMC module

Eaton's new hot-swap eNMC (ePDU Network Management and Control) module can be replaced without the need to power down your rack. As a result, you not only increase uptime, but also enhance serviceability and potentially save \$200 to \$500 on an unnecessary service call.



Hot-swap meter is able to be replaced without powering down the rack.

Low-profile form factor

The width of the new ePDU G3 Basic and Metered Input ePDUs has been optimized for side mounting, resulting in zero interference into the rail space so you don't block hot-swap fans or power supplies. Some models feature low-profile circuit breakers to reduce interference when the ePDU is mounted with outlets facing the rail (center of the rack).



ePDU G3 in Eaton S-Series rack



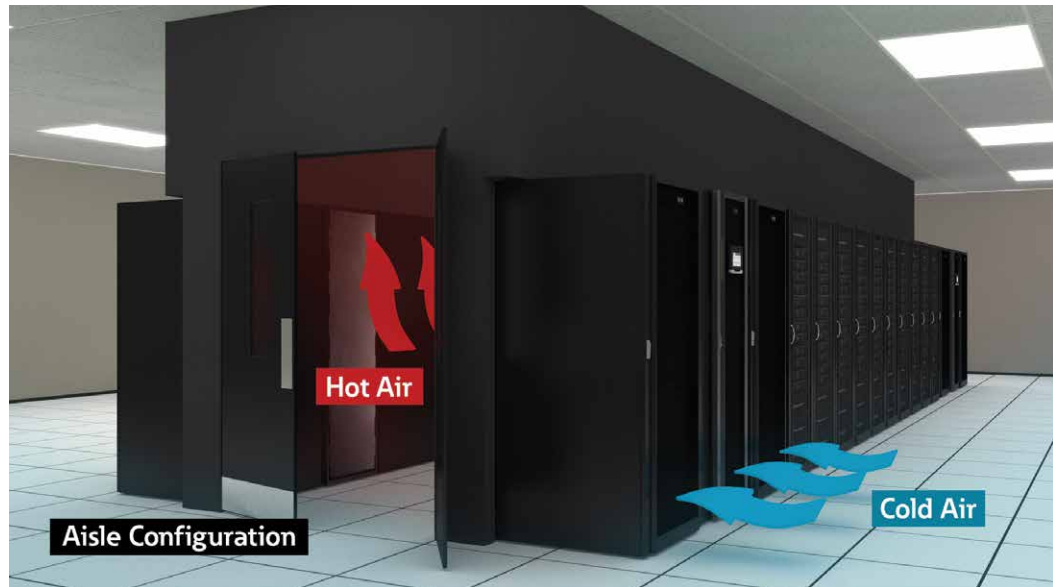
ePDU G3 does not interfere with rail space



ePDU G3 mounted at 90-degree angle

High operating temperature

All ePDU G3 models are fully functional in high operating temperature environments up to 140°F (60°C), resulting in reduced cooling costs. A higher operating temperature is needed for most modern hot-air containment solutions. Since ePDUs are located in the back of the rack where server exhaust can elevate temperatures to as high as 116°F, based on ASHRAE's 80.6°F maximum inlet temperature guidelines, it's important to have the right solution.



Modern hot-air containment solution with ePDUs located in the hot air exhaust section

Daisy chain four units from one IP address

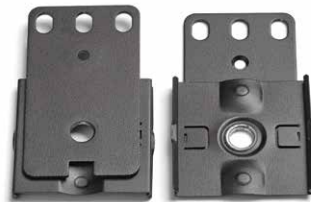
Eaton's new patented daisy chain is available on all network-connected ePDU G3 models. This feature allows four ePDUs to share the same network connection and IP address, resulting in a 75 percent reduction in network infrastructure costs, compared to competitor rack PDUs that require a dedicated IP address.

Demonstrated cost difference based on two ePDUs per rack:

	100 racks	200 racks	400 racks
Dedicated IP address	\$40,000	\$80,000	\$160,000
Daisy chain method	\$10,000	\$20,000	\$40,000
Cost savings	\$30,000	\$60,000	\$120,000

Ease of installation

- Patented clip feet allow for various mounting methods
- Mounting buttons come pre-installed to reduce installation time
- Double-sided aluminum buttons accommodate different variations of metal thickness
- Optional side mounting button locations to mount ePDU G3s at a 90-degree rotation in the rack, preventing interference with hot-swap fans and power supplies



Eaton patented clip feet



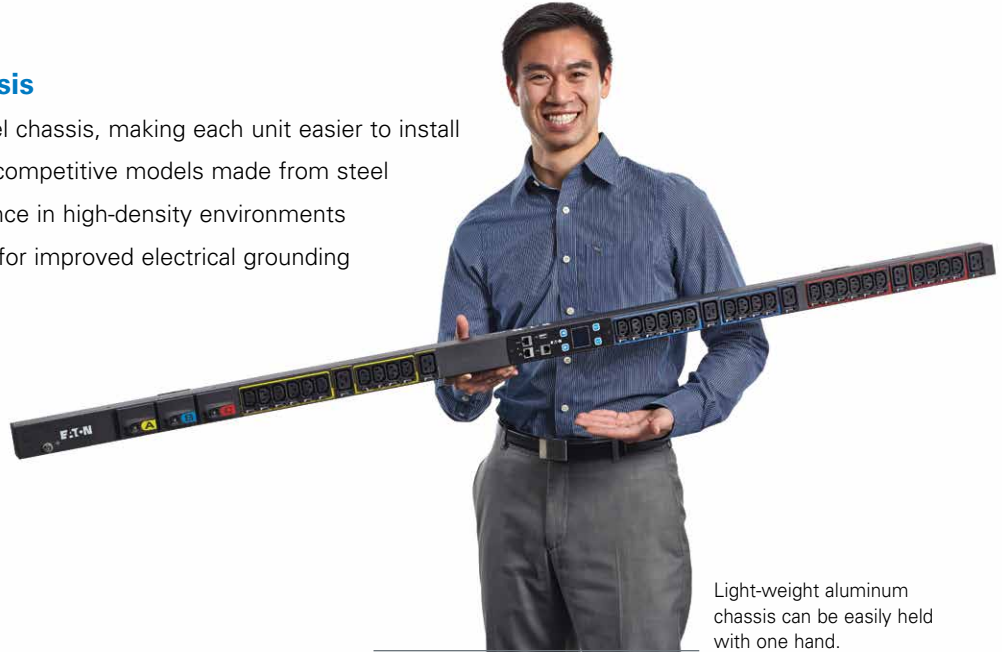
Clip feet easily attach to ePDUs



Mounting buttons come pre-installed on each ePDU G3

Light-weight aluminum chassis

- Offers a 30 percent lighter-than-steel chassis, making each unit easier to install
- Lower shipping costs compared to competitive models made from steel
- Dissipates heat for better performance in high-density environments
- Offers better electrical conductivity for improved electrical grounding



Light-weight aluminum chassis can be easily held with one hand.

Network management

The advanced network capabilities of the ePDU G3 platform allow you to monitor multiple ePDUs through Eaton's power monitoring solutions. In addition, ePDU G3 has built-in support for third-party data center infrastructure management (DCIM) solutions by using SNMP v3 to communicate securely to each ePDU.

Software	Number of racks supported	Software type	Application	Cost
Web browser / email alerts	1-25	Embedded Web server	Data closet or small network	Included
Eaton Intelligent Power Manager	1-200	Server based / Web interface	Small-to-medium enterprise	Free up to 10 nodes
Third-party DCIM	50-1,000	Varies / SNMP data to third party	Medium-to-large enterprise	Varies
Eaton Foreseer	100-1,000	Server based / Web interface	Facility or large enterprise	Varies by size



Part Number EMP001

Environmental monitoring

The optional environmental monitoring probe connects to the serial port and enables you to collect temperature and humidity readings in the rack environment to monitor environmental data remotely. You can also monitor the status of two contact closure devices, such as door switches.

ePDU G3 platform model selection guide

	Catalog Number	Function	Plug	Breaker	Max kW	Cord (ft)	Output receptacles	Dimensions (H x W x D, in)
ePDU G3 Basic models selection guide	EBA301-10	BA	L15-20P	(3) 20A	5.76	10	(30) C13, (6) C19	66.5 x 2.05 x 2.1
	EBA311-10	BA	L15-20P	(3) 20A	5.76	10	(42) C13	69.5 x 2.05 x 2.1
	EBA308-10	BA	L21-20P	None	5.76	10	(21) 5-20R, (6) L6-20R	66.5 x 2.05 x 2.1
	EBA309-10	BA	L21-20P	None	5.76	10	(39) 5-20R	66.5 x 2.05 x 2.1
	EBA302-10	BA	L21-20P	(3) 20A	5.76	10	(30) C13, (6) C19	66.5 x 2.05 x 2.1
	EBA312-10	BA	L21-20P	(3) 20A	5.76	10	(42) C13	69.5 x 2.05 x 2.1
	EBA303-10	BA	L15-30P	(3) 20A	8.64	10	(30) C13, (6) C19	66.5 x 2.05 x 2.1
	EBA313-10	BA	L15-30P	(3) 20A	8.64	10	(42) C13	69.5 x 2.05 x 2.1
	EBA310-10	BA	L21-30P	(3) 20A	8.64	10	(30) C13, (6) C19, (1) 5-20R	66.5 x 2.05 x 2.1
	EBA304-10	BA	L21-30P	(3) 20A	8.64	10	(30) C13, (6) C19	66.5 x 2.05 x 2.1
	EBA314-10	BA	L21-30P	(3) 20A	8.64	10	(42) C13	69.5 x 2.05 x 2.1
	EBA305-06	BA	CS8365	(3) 20A	12.48	6	(30) C13, (6) C19	66.5 x 2.05 x 2.1
	EBA315-10	BA	CS8365	(3) 20A	12.48	10	(42) C13	69.5 x 2.05 x 2.1
	EBA300-06	BA	CS8365	(2) 20A, (1) 30A	14.4	6	(24) C13, (4) C19, (2) L6-30P	66.5 x 2.05 x 2.1
	EBA306-06	BA	CS8365	(6) 20A	14.4	6	(21) C13, (12) C19	66.5 x 2.05 x 2.1
	EBA307-06	BA	IEC60309 460P9	(6) 20A	17.3	6	(21) C13, (12) C19	66.5 x 2.05 x 2.1
	ePDU G3 Metered Input models selection guide	EMI100-10	MI	5-15P	None	1.44	10	(24) 5-15R
EMI101-10		MI	L5-20P (5-20P adapter)	None	1.92	10	(24) 5-20R	66.5 x 2.05 x 2.1
EMI102-10		MI	L5-30P	(2) 20A	2.88	10	(30) 5-20R	66.5 x 2.05 x 2.1
EMI103-10		MI	C20 (L6-20 adapter)	None	3.84	10	(18) C13, (2) C19	35.5 x 2.05 x 2.1
EMI301-10		MI	L15-20P	(3) 20A	5.76	10	(30) C13, (6) C19	66.5 x 2.05 x 2.1
EMI311-10		MI	L15-20P	(3) 20A	5.76	10	(42) C13	69.5 x 2.05 x 2.1
EMI308-10		MI	L21-20P	None	5.76	10	(21) 5-20R, (6) L6-20R	66.5 x 2.05 x 2.1
EMI309-10		MI	L21-20P	None	5.76	10	(39) 5-20R	66.5 x 2.05 x 2.1
EMI318-10		MI	L21-20P	None	5.76	10	(30) C13, (6) C19, (3) 5-20R	66.5 x 2.05 x 2.1
EMI302-10		MI	L21-20P	(3) 20A	5.76	10	(30) C13, (6) C19	66.5 x 2.05 x 2.1
EMI312-10		MI	L21-20P	(3) 20A	5.76	10	(42) C13	69.5 x 2.05 x 2.1
EMI104-10		MI	L6-30P	(2) 20A	5.76	10	(36) C13, (6) C19	66.5 x 2.05 x 2.1
EMI303-10		MI	L15-30P	(3) 20A	8.64	10	(30) C13, (6) C19	66.5 x 2.05 x 2.1
EMI313-10		MI	L15-30P	(3) 20A	8.64	10	(42) C13	69.5 x 2.05 x 2.1
EMI310-10		MI	L21-30P	(3) 20A	8.64	10	(30) C13, (6) C19, (1) 5-20R	66.5 x 2.05 x 2.1
EMI304-10		MI	L21-30P	(3) 20A	8.64	10	(30) C13, (6) C19	66.5 x 2.05 x 2.1
EMI314-10		MI	L21-30P	(3) 20A	8.64	10	(42) C13	69.5 x 2.05 x 2.1
EMI305-06		MI	CS8365	(3) 20A	12.48	6	(30) C13, (6) C19	66.5 x 2.05 x 2.1
EMI315-10		MI	CS8365	(3) 20A	12.48	10	(42) C13	69.5 x 2.05 x 2.1
EMI300-06		MI	CS8365	(2) 20A, (1) 30A	14.4	6	(24) C13, (4) C19, (2) L6-30R	66.5 x 2.05 x 2.1
EMI316-06	MI	CS8365	(6) 20A	14.4	6	(9) C13, (12) C19	66.5 x 2.05 x 2.1	
EMI317-06	MI	IEC60309 460P9	(6) 20A	17.3	6	(9) C13, (12) C19	66.5 x 2.05 x 2.1	

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G3 platform, visit
Eaton.com/ePDUG3

Distributed IT Performance Management
Brightlayer Data Centers suite

Many locations. **One you.**

Do more in less time while cutting costs by remotely monitoring and controlling your IT infrastructure.

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Powering Business Worldwide

Eaton's Brightlayer DITPM
Software is the Next Generation
of VPM Software.

Gain visibility into critical assets across multiple locations—from a few sites to thousands.

Managing and maintaining IT infrastructure equipment like power distribution units (PDUs) and uninterruptible power supplies (UPSs) across multiple sites is time consuming—and often stressful. When essential equipment unexpectedly goes down at a remote site, such as a retail store, medical clinic or school, you need to quickly fix the problem to minimize the impact to your organization's bottom line and reputation. That's hard to when you don't have a skilled on-site IT resource at the location.

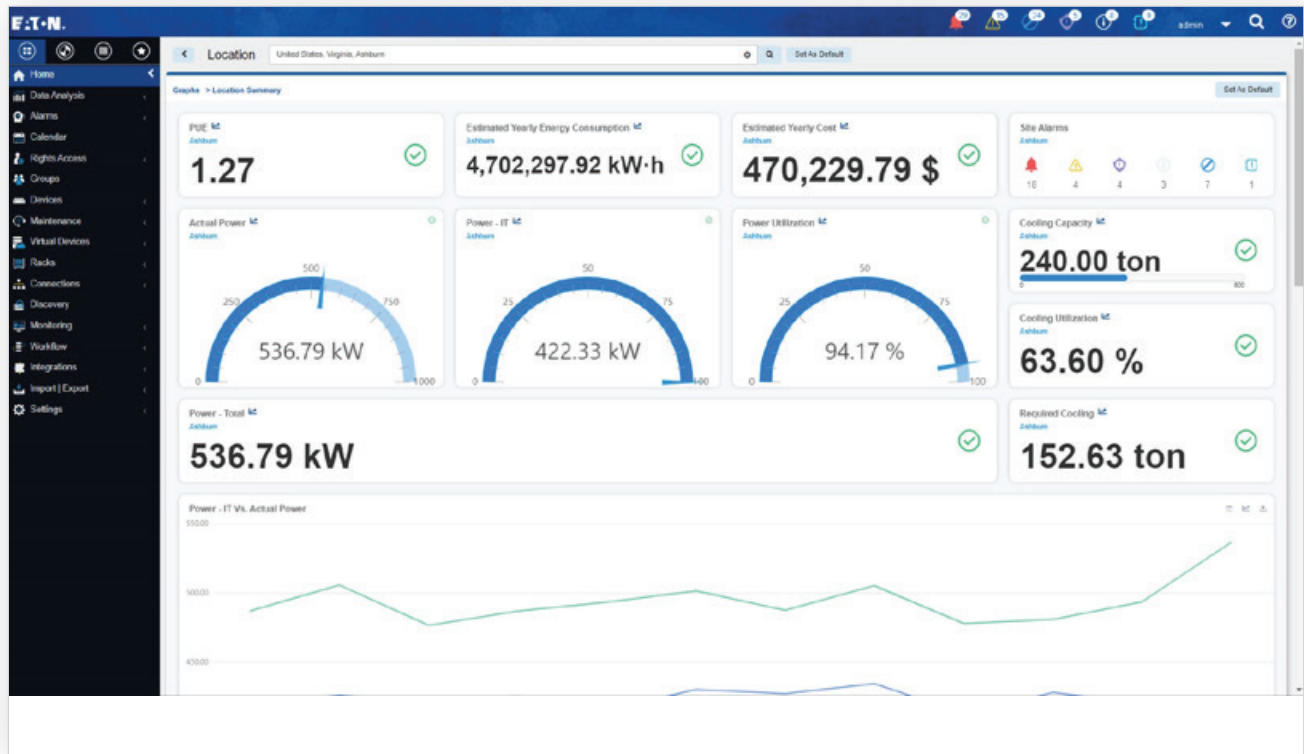
With Distributed IT Performance Management software, you can:

- **Know what's happening.** View real-time reports, trend charts and dashboards, and receive real-time alerts prioritized by severity and escalated when needed.
- **Troubleshoot and resolve issues.** Remotely control assets, such PDU outlets and UPS load segments, automate device response and diagnose equipment performance.
- **Fine-tune your operation.** Stay a step ahead of issues and optimize your operations.



Map and distributed alarming report provides visibility into what's happening across your sites.

Know what's happening across your distributed IT environment.



Access real-time information on how your operations are performing by location.

Distributed IT Performance Management (DITPM) software allows you to remotely manage and control networked-connected devices—regardless of the vendor or their location. It provides full visibility into your equipment, and enables you to remotely troubleshoot and resolve issues and update firmware to gain efficiencies that save time and money.

Features and benefits:

- **View real-time reports, trend charts and dashboards** for micro and macro trends at one, several or all locations.
- **Eliminate nuisance alarms with real-time alerts** for critical issues that are escalated when needed to speed response.



Quickly troubleshoot and resolve equipment issues to reduce truck rolls.



When equipment goes offline at a distributed site without on-site IT staff, deploying someone to diagnose and correct the issue costs time and money. With Distributed IT Performance Management software, you can resolve unexpected issues more quickly—often preventing them entirely.



Features and benefits:

- **Remotely control rackmount PDU outlets and rackmount UPS load segments**—regardless of the vendor.
- **Automate device response and/or shutdown** during critical power events or environmental stress conditions.
- **Reduce truck rolls** and the need for on-site, non-IT staff to help troubleshoot equipment issues.
- **Gain 24/7 insight into equipment performance**, enabling you to remotely power cycle devices, and remotely diagnose and take proactive corrective action when needed.

Fine-tune your operation to stay a step ahead.

Distributed IT Performance Management software enables you to stay a step ahead of issues and optimize your operations with powerful features, such as remote firmware updates and configuration changes, as well as reports, trend charts and dashboards that provide the insights you need to make decisions.



Features and benefits:

- **Remotely push firmware updates** or configuration changes in bulk to your Eaton rackmount PDU and rackmount UPS network cards in minutes, keeping your organization safer from cybersecurity vulnerabilities while eliminating the need for in-person updates.
- **Use detailed reports, trend charts and dashboards** to gain insights into power utilization, alarm frequency, power connections, 3D rack elevation visualizations and more.

Row Limit		10000	Date Range		2023-04-04 - 2023-04-04				
Sort By		Device Group							
Public, Texas Medical Center East									
Type	Manufacturer	Model	Device Name	Output Load (%)	Seconds On Battery (sec)	Last Replace Date	Battery Time Remaining (sec)	Serial Number	Temperature (°F)
UPS - Rackmount	Eaton	5P1000R	Rack UPS Office 09 - 5P1000	66	1362	2021-03-21 19:00:00 EDT	1681	G33483982	79
UPS - Rackmount	Eaton	5P1000R	Rack UPS Office 02 - 5P1000	24	1010	2022-06-14 19:00:00 EDT	1663	G33483975	69
UPS - Rackmount	Eaton	5P1000R	Rack UPS - 5P1000 -19	48	1571	2021-03-21 19:00:00 EDT	1548	G33483992	81
UPS - Rackmount	Eaton	5P1000R	Rack UPS Office 07 - 5P1000	64	1678	2021-03-21 19:00:00 EDT	1544	G33483980	55
Public, Texas Medical Center West									
Type	Manufacturer	Model	Device Name	Output Load (%)	Seconds On Battery (sec)	Last Replace Date	Battery Time Remaining (sec)	Serial Number	Temperature (°F)
Tuesday, April 4, 2023 1/4									

Battery health report predicts remaining battery life so you can proactively replace them before they fail.

Speed installation and training with tools and resources.

Eaton offers a variety of tools and resources to make installing, configuring and using Distributed IT Performance Management software faster and easier.



Tools include:

- **A migration toolkit** when transitioning from another vendor's software.
- **Short, easy-to-digest training videos** on topics spanning installation, server administration, rights access, the navigation tree, device management, monitoring configuration, discovery, and more.
- **Virtual appliance** installation options for VMware and Podman.
- **Bulk import tools** for location and device configuration.
- **An easy-to-deploy OVF package.**
- **Deployment services**, which are available for purchase.



Map and distributed alarming report provides visibility into what's happening across your sites.

Three products. One digital platform. Better together.



Distributed IT Performance Management software is part of a digital platform that includes two other products, Data Center Performance Management (DCPM) and Electrical Power Monitoring System (EPMS), providing an easy upgrade path as needs change in the future.

So, if you decide later that you'd like to use the same software to manage your edge sites and your core data center, it's an easy upgrade to our Data Center Performance Management and/or Electrical Power Monitoring System software—no need to migrate data or integrate multiple software applications. Our single digital platform will evolve with your needs.



Brightlayer
Data Centers suite



The time is now.

Connect with an Eaton representative to request a demo or learn how Distributed IT Performance Management software can help you take your IT operations to the next level.

Learn more at
[Eaton.com/DITPM](https://www.eaton.com/DITPM)

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Cleveland, OH 44122
United States
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Domestic U.S.A. General Terms and Conditions of Sale for Distribution and Control Products and Services

Terms and Conditions of Sale. The Terms and Conditions of Sale set forth herein, and any supplements which may be attached hereto, constitute the full and final expression of the contract for the sale of products or services ("Product(s)" or "Services") by Eaton Corporation ("Seller") to the Buyer, and supersedes all prior quotations, purchase orders, correspondence or communications, whether written or oral, between the Seller and the Buyer. Notwithstanding any contrary language in the Buyer's purchase order, correspondence or other form of acknowledgment, Buyer shall be bound by these Terms and Conditions of Sale when it sends a purchase order or otherwise indicates acceptance of this contract, or when it accepts delivery from Seller of the Products or Services. THE CONTRACT FOR SALE OF THE PRODUCTS OR SERVICES IS EXPRESSLY LIMITED TO THE TERMS AND CONDITIONS OF SALE STATED HEREIN. ANY ADDITIONAL OR DIFFERENT TERMS PROPOSED BY BUYER ARE REJECTED UNLESS EXPRESSLY AGREED TO IN WRITING BY SELLER. No contract shall exist except as herein provided.

Complete Agreement. All Seller documents referenced in these Terms and Conditions of Sale are hereby incorporated by reference into the terms herein. No amendment or modification hereto nor any statement, representation or warranty not contained herein shall be binding on the Seller unless made in writing by an authorized representative of the Seller. Prior dealings, usage of the trade or a course of performance shall not be relevant to determine the meaning of this contract even though the accepting or acquiescing party had knowledge of the nature of the performance and opportunity for objection.

Quotations. A written quotation is valid for 30 days from its date unless otherwise stated in the quotation or terminated sooner by notice. Verbal quotations, unless accepted, expire the same day they are made. A complete signed order must be received by Seller within 20 calendar days of notification of award, otherwise the price and shipment will be subject to re-negotiation.

TERMINATION AND CANCELLATION

Products. Any order may be terminated by the Buyer only by written notice and upon payment of reasonable termination charges, including all progress billings and all incurred direct manufacturing costs.

Services. Any order may be terminated by the Buyer only by written notice and upon payment of reasonable termination charges including all costs plus profit. Seller shall have the right to cancel any order at any time by written notice if Buyer breaches any of the terms hereof, becomes the subject of any proceeding under state or federal law for the relief of debtors, or otherwise becomes insolvent or bankrupt, generally does not pay its debts as they become due or makes an assignment for the benefit of creditors.

Prices. All prices are subject to change without notice. In the event of a price change, the effective date of the change will be the date of the new price or discount sheet, letter or telegram. All quotations made or orders accepted after the effective date will be on the new basis. For existing orders, the price of the unshipped portion of an order will be the price in effect at time of shipment.

Price Policy – Products and Services. When prices are quoted as firm for quoted shipment, they are firm provided the following conditions are met:

1. The order is released with complete engineering details.
2. Shipment of Products is made, and Services purchased are provided within the quoted lead time.
3. When drawings for approval are required for any Products, the drawings applicable to those Products must be returned within 30* calendar days from the date of the original mailing of the drawings by Seller. The return drawings must be released for manufacture and shipment and must be marked "APPROVED" or "APPROVED AS NOTED." Drawing re-submittals which are required for any other reason than to correct Seller errors will not extend the 30-day period.

If the Buyer initiates or in any way causes delays in shipment, provision of Services or return of approval drawings beyond the periods stated above, the price of the Products or Services will be increased 1% per month or fraction thereof up to a maximum of 18 months from the date of the Buyer's order. For delays resulting in shipment or provision of Services beyond 18 months from the date of the Buyer's order, the price must be renegotiated.

Price Policy – BLS. Refer to Price Policy 25-050.

Minimum Billing. Orders less than \$1,000 will be assessed a shipping and handling charge of 5% of the price of the order, with a minimum charge of \$25.00 unless noted differently on Product discount sheets.

Taxes. The price does not include any taxes. Buyer shall be responsible for the payment of all taxes applicable to, or arising from, the transaction, the Products, its sale, value or use, or any Services performed in connection therewith regardless of the person or entity actually taxed.

TERMS OF PAYMENT

Products. Acceptance of all orders is subject to the Buyer meeting Seller's credit requirements. Terms of payment are subject to change for failure to meet such requirements. Seller reserves the right at any time to demand full or partial payment before proceeding with a contract of sale as a result of changes in the financial condition of the Buyer. Terms of Payment are either Net 30 days from the date of invoice of each shipment or carry a cash discount based on Product type. Specific payment terms for Products are outlined in the applicable Product discount schedules.

Services. Terms of payment are net within 30 days from date of invoice for orders amounting to less than \$50,000.00. Terms of payment for orders exceeding \$50,000.00 shall be made according to the following:

1. Twenty percent (20%) of order value with the purchase order payable 30 days from date of invoice.

* 60 days for orders through contractors to allow time for their review and approval before and after transmitting them to their customers.

2. Eighty percent (80%) of order value in equal monthly payments over the performance period payable 30 days from date of invoice.

Except for work performed (i) under a firm fixed price basis or (ii) pursuant to terms of a previously priced existing contract between Seller and Buyer, invoices for work performed by Seller shall have added and noted on each invoice a charge of 3% (over and above the price of the work) which is related to Seller compliance with present and proposed environmental, health and safety regulations associated with prescribed requirements covering hazardous materials management and employee training, communications, personal protective equipment, documentation and record keeping associated therewith.

Adequate Assurances. If, in the judgment of Seller, the financial condition of the Buyer, at any time during the period of the contract, does not justify the terms of payment specified, Seller may require full or partial payment in advance.

Delayed Payment. If payments are not made in accordance with these terms, a service charge will, without prejudice to the right of Seller to immediate payment, be added in an amount equal to the lower of 1.5% per month or fraction thereof or the highest legal rate on the unpaid balance.

Freight. Freight policy will be listed on the Product discount sheets, or at option of Seller one of the following freight terms will be quoted.

F.O.B. – P/S – Frt./Ppd. and Invoiced. Products are sold F.O.B. point of shipment freight prepaid and invoiced to the Buyer.

F.O.B. – P/S – Frt./Ppd. and Allowed. Products sold are delivered F.O.B. point of shipment, freight prepaid and included in the price.

F.O.B. Destination – Frt./Ppd. and Allowed. At Buyer's option, Seller will deliver the Products F.O.B. destination freight prepaid and 2% will be added to the net price. The term "freight prepaid" means that freight charges will be prepaid to the accessible common carrier delivery point nearest the destination for shipments within the United States and Puerto Rico unless noted differently on the Product discount sheets. For any other destination, contact Seller's representative.

Shipment and Routing. Seller shall select the point of origin of shipment, the method of transportation, the type of carrier equipment and the routing of the shipment. If the Buyer specifies a special method of transportation, type of carrier equipment, routing or delivery requirement, Buyer shall pay all special freight and handling charges. When freight is included in the price, no allowance will be made in lieu of transportation if the Buyer accepts shipment at factory, warehouse or freight station or otherwise supplies its own transportation.

Risk of Loss. Risk of loss or damage to the Products shall pass to Buyer at the F.O.B. point.

Concealed Damage. Except in the event of F.O.B. destination shipments, Seller will not participate in any settlement of claims for concealed damage. When shipment has been made on an F.O.B. destination basis, the Buyer must unpack immediately and, if damage is discovered, must:

1. Not move the Products from the point of examination.
2. Retain shipping container and packing material.
3. Notify the carrier in writing of any apparent damage.
4. Notify Seller representative within 72 hours of delivery.
5. Send Seller a copy of the carrier's inspection report.

Witness Tests/Customer Inspection. Standard factory tests may be witnessed by the Buyer at Seller's factory for an additional charge calculated at the rate of \$2,500 per day (not to exceed eight (8) hours) per Product type. Buyer may final-inspect Products at the Seller's factory for \$500 per day per Product type.

Witness tests will add one (1) week to the scheduled shipping date. Seller will notify Buyer fourteen (14) calendar days prior to scheduled witness testing or inspection. In the event Buyer is unable to attend, the Parties shall mutually agree on a rescheduled date. However, Seller reserves the right to deem the witness tests waived with the right to ship and invoice Products.

Held Orders. For any order held, delayed or rescheduled at the request of the Buyer, Seller may, at its sole option, (1) require payment to be based on any reasonable basis, including but not limited to the contract price, and any additional expenses, or cost resulting from such a delay; (2) store Products at the sole cost and risk of loss of the Buyer; and/or (3) charge to the Buyer those prices under the applicable price policy. Payment for such price, expenses and costs, in any such event, shall be due by Buyer within thirty (30) days from date of Seller's invoice. Any order so held delayed or rescheduled beyond six (6) months will be treated as a Buyer termination.

Drawing Approval. Seller will design the Products in line with, in Seller's judgment, good commercial practice. If at drawing approval Buyer makes changes outside of the design as covered in their specifications, Seller will then be paid reasonable charges and allowed a commensurate delay in shipping date based on the changes made.

Drawing Re-Submittal. When Seller agrees to do so in its quotation, Seller shall provide Buyer with the first set of factory customer approval drawing(s) at Seller's expense. The customer approval drawing(s) will be delivered at the quoted delivery date. If Buyer requests drawing changes or additions after the initial factory customer approval drawing(s) have been submitted by Seller, the Seller, at its option, may assess Buyer drawing charges. Factory customer approval drawing changes required due to misinterpretation by Seller will be at Seller's expense. Approval drawings generated by Bid-Manager are excluded from this provision.

WARRANTY

Warranty for Products. Seller warrants that the Products manufactured by it will conform to Seller's applicable specifications and be free from failure due to defects in workmanship and material for one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

In the event any Product fails to comply with the foregoing warranty Seller will, at its option, either (a) repair or replace the defective Product, or defective

part or component thereof, F.O.B. Seller's facility freight prepaid, or (b) credit Buyer for the purchase price of the Product. All warranty claims shall be made in writing.

Seller requires all non-conforming Products be returned at Seller's expense for evaluation unless specifically stated otherwise in writing by Seller. This warranty does not cover failure or damage due to storage, installation, operation or maintenance not in conformance with Seller's recommendations, including as set forth in these Terms and Conditions of Sale, and industry standard practice or due to accident, misuse, abuse, or negligence. This warranty does not cover breach of data or system security, including that of information technology infrastructure, computers, software, hardware, databases, electronic systems (including database management systems), and networks. This warranty does not cover reimbursement for labor, gaining access, removal, installation, temporary power or any other expenses, which may be incurred in connection with repair or replacement. This warranty does not apply to equipment not manufactured by Seller. Seller limits itself to extending the same warranty it receives from the third-party supplier, to the extent such third party permits assignment of its warranty.

Extended Warranty for Products. If requested by the Buyer and specifically accepted in writing by Seller, the foregoing standard warranty for Products will be extended from the date of shipment for the period and price indicated below:

- 24 months – 2% of Contract Price
- 30 months – 3% of Contract Price
- 36 months – 4% of Contract Price

Special Warranty (In and Out) for Products. If requested by the Buyer and specifically accepted in writing by Seller, Seller will, during the warranty period for Products, at an additional cost of 2% of the contract price, be responsible for the direct cost of:

1. Removing the Product from the installed location.
2. Transportation to the repair facility and return to the site.
3. Reinstallation on site.

The total liability of Seller for this Special Warranty for Products is limited to 50% of the contract price of the particular Product being repaired and excludes expenses for removing adjacent apparatus, walls, piping, structures, temporary service, etc.

Warranty for Services. Seller warrants that the Services performed by it hereunder will be performed in accordance with generally accepted professional standards. The Services, which do not so conform, shall be corrected by Seller upon notification in writing by the Buyer within one (1) year after completion of the Services. Unless otherwise agreed to in writing by Seller, Seller assumes no responsibility with respect to the suitability of the Buyer's, or its customer's, equipment or with respect to any latent defects in equipment not supplied by Seller. This warranty does not cover damage to Buyer's, or its customer's, equipment, components or parts resulting in whole, or in part from improper maintenance or operation (including failure to comply with Seller's recommendations) or from their deteriorated condition. Buyer will, at its cost, provide Seller with unobstructed access to the defective Services, as well as adequate free working space in the immediate vicinity of the defective Services and such facilities and systems, including, without limitation, docks, cranes and utility disconnects and connects, as may be necessary in order that Seller may perform its warranty obligations. The conducting of any tests shall be mutually agreed upon and Seller shall be notified of, and may be present at, all tests that may be made.

Warranty for Power Systems Studies. Seller warrants that any power systems studies performed by it will conform to generally accepted professional standards. Any portion of the study, which does not so conform, shall be corrected by Seller upon notification in writing by the Buyer within six (6) months after completion of the study. All warranty work shall be performed in a single shift straight time basis Monday through Friday. In the event that the study requires correction of warranty items on an overtime schedule, the premium portion of such overtime shall be for the Buyer's account.

Limitation on Warranties for Products, Services and Power Systems Studies. THE FOREGOING WARRANTIES ARE EXCLUSIVE EXCEPT FOR WARRANTY OF TITLE. SELLER DISCLAIMS ALL OTHER WARRANTIES INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. CORRECTION OF NON-CONFORMITIES IN THE MANNER AND FOR THE PERIOD OF TIME PROVIDED ABOVE SHALL CONSTITUTE SELLER'S SOLE LIABILITY AND BUYER'S EXCLUSIVE REMEDY FOR FAILURE OF SELLER TO MEET ITS WARRANTY OBLIGATIONS, WHETHER CLAIMS OF THE BUYER ARE BASED IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE.

Asbestos. Federal Law requires that building or facility owners identify the presence, location and quantity of asbestos containing material (hereinafter "ACM") at work sites. Seller is not licensed to abate ACM. Accordingly, for any contract which includes the provision of Services, prior to (i) commencement of work at any site under a specific Purchase Order, (ii) a change in the work scope of any Purchase Order, the Buyer will certify that the work area associated with the Seller's scope of work includes the handling of Class II ACM, including but not limited to generator wedges and high temperature gaskets which include asbestos materials. The Buyer shall, at its expense, conduct abatement should the removal, handling, modification or reinstallation, or some or all of them, of said Class II ACM be likely to generate airborne asbestos fibers; and should such abatement affect the cost of or time of performance of the work then Seller shall be entitled to an equitable adjustment in the schedule, price and other pertinent affected provisions of the contract.

Compliance with Nuclear Regulation. Seller's Products are sold as commercial grade Products not intended for application in facilities or activities licensed by the United States Nuclear Regulatory Commission for atomic purposes. Further certification will be required for use of the Products in any safety-related application in any nuclear facility licensed by the U.S. Nuclear Regulatory Commission.

Returning Products. Authorization and shipping instructions for the return of any Products must be obtained from Seller before returning the Products. When return is occasioned due to Seller error, full credit including all transportation charges will be allowed.

Product Notices. Buyer shall provide the users, including its employees, and in the case of permitted resale, any subsequent purchasers of the Products with all Seller supplied Product notices, warnings, instructions, recommendations and similar materials.

Cybersecurity. Seller is not responsible for a breach of data or electronic system security, including, but not limited to, a system intrusion or interference, virus or malicious code attack, loss of data, data theft, unauthorized access to confidential information and/or nonpublic personal information, hacking incident or any acts of data ransom, caused by any third-party equipment, modification made to a Product other than by Seller, or

failure by Buyer to comply with Eaton Assemblies Cybersecurity Hardening Guidelines at www.eaton.com/assemblies-security (the "Cybersecurity Guidelines"). Seller may revise the Cybersecurity Guidelines at any time without prior notice.

Buyer is responsible for obtaining (at Buyer's expense) assurances from third party suppliers with respect to cybersecurity for third party equipment. As a condition of use and/or resale, Buyer shall direct all users of the Products purchased to access the applicable accompanying Eaton End User License Agreement (EULA) and the Cybersecurity Guidelines, all of which are subject to change in terms and practices, at Seller's discretion, at any time.

Force Majeure. Seller shall not be liable for failure to perform or delay in performance due to fire, flood, strike or other labor difficulty, act of God, act of any governmental authority or of the Buyer, riot, embargo, fuel or energy shortage, car shortage, wrecks or delays in transportation, or due to any other cause beyond Seller's reasonable control. In the event of delay in performance due to any such cause, the date of delivery or time for completion will be extended by a period of time reasonably necessary to overcome the effect of such delay. Seller cannot be held liable, and Buyer shall not be entitled to any damages and/or indemnifications, in case Seller is prevented, hindered or delayed from or in performing any of its obligations resulting from the impact of the outbreak of COVID-19 or any future pandemic or epidemic for reasons not attributable to Seller.

Liquidated Damages. Contracts which include liquidated damage clauses for failure to meet shipping or job completion promises are not acceptable or binding on Seller, unless such clauses are specifically accepted in writing by an authorized representative of the Seller at its headquarters office.

Patent Infringement. Seller will defend or, at its option, settle any suit or proceeding brought against Buyer, or Buyer's customers, to the extent it is based upon a claim that any Product or part thereof, manufactured by Seller or its subsidiaries and furnished hereunder, infringes any United States patent, other than a claim of infringement based upon use of a Product or part thereof in a process, provided Seller is notified in reasonable time and given authority, information and assistance (at Seller's expense) for the defense of same. Seller shall pay all legal and court costs and expenses and court-assessed damages awarded therein against Buyer resulting from or incident to such suit or proceeding. In addition to the foregoing, if at any time Seller determines there is a substantial question of infringement of any United States patent, and the use of such Product is or may be enjoined, Seller may, at its option and expense: either (a) procure for Buyer the right to continue using and selling the Product; (b) replace the Product with non-infringing apparatus; (c) modify the Product so it becomes non-infringing; or (d) as a last resort, remove the Product and refund the purchase price, equitably adjusted for use and obsolescence.

In no case does Seller agree to pay any recovery based upon its Buyer's savings or profit through use of Seller's Products whether the use be special or ordinary. The foregoing states the entire liability of Seller for patent infringement.

The preceding paragraph does not apply to any claim of infringement based upon: (a) any modification made to a Product other than by Seller; (b) any design and/or specifications of Buyer to which a Product was manufactured; or (c) the use or combination of Product with other products where the Product does not itself infringe. As to the above-identified claim situations where the preceding paragraph does not apply, Buyer shall defend and hold Seller harmless in the same manner and to the extent as Seller's obligations described in the preceding paragraph. Buyer shall be responsible for obtaining (at Buyer's expense) all license rights required for Seller to be able to use software products in the possession of Buyer where such use is required in order to perform any Service for Buyer.

With respect to a Product or part thereof not manufactured by Seller or its subsidiaries, Seller will attempt to obtain for Buyer, from the supplier(s), the patent indemnification protection normally provided by the supplier(s) to customers.

Compliance with OSHA. Seller offers no warranty and makes no representation that its Products comply with the provisions or standards of the Occupational Safety and Health Act of 1970, or any regulation issued thereunder. In no event shall Seller be liable for any loss, damage, fines, penalty or expenses arising under said Act.

Limitation of Liability. THE REMEDIES OF THE BUYER SET FORTH IN THIS CONTRACT ARE EXCLUSIVE AND ARE ITS SOLE REMEDIES FOR ANY FAILURE OF SELLER TO COMPLY WITH ITS OBLIGATIONS HEREUNDER. NOTWITHSTANDING ANY PROVISION IN THIS CONTRACT TO THE CONTRARY, IN NO EVENT SHALL SELLER BE LIABLE IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE FOR DAMAGE TO PROPERTY OR EQUIPMENT OTHER THAN PRODUCTS SOLD UNDER THIS AGREEMENT, LOSS OF PROFITS OR REVENUE, LOSS OF USE OF PRODUCTS, LOST PRODUCTION, COST OF CAPITAL, LOSS OF, DAMAGE TO, OR UNAUTHORIZED ACCESS TO DATA, BREACH OF SYSTEM SECURITY, FAILURE TO TRANSMIT OR RECEIVE DATA, BUSINESS INTERRUPTION, CLAIMS OF CUSTOMERS OF THE BUYER OR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, REGARDLESS OF WHETHER SUCH POTENTIAL DAMAGES ARE FORESEEABLE OR IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE TOTAL CUMULATIVE LIABILITY OF SELLER ARISING FROM OR RELATED TO THIS CONTRACT WHETHER THE CLAIMS ARE BASED IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE, SHALL NOT EXCEED THE PRICE OF THE PRODUCT OR SERVICES ON WHICH SUCH LIABILITY IS BASED.

Distributors and Third-Party Agents. In order to ensure that distributors and third party agents acting on behalf of Seller share Seller's commitment to doing business right, all distributors and agents shall abide by Seller's [Anticorruption Policy](#).

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Eaton.com

**Critical Power and Digital Infrastructure Division
Addendum To
Domestic U.S.A. General Terms and Conditions of Sale for
Distribution and Control Products and Services**

This Addendum ("Addendum") amends the Terms and Conditions of Sale set forth in Eaton's Selling Policy 25-000 and is incorporated by reference into and is a part of the Terms and Conditions of Sale. In the event there is any conflict or inconsistency between this Addendum and the Terms and Conditions of Sale set forth in Eaton's Selling Policy 25-000, this Addendum shall govern and control.

This Addendum applies to Eaton's Critical Power and Digital Infrastructure Division (CPDI) product offerings.

This addendum does not apply to Uninterruptible Power Supply preventative maintenance services, refer to Eaton's UPS Services Terms and Conditions (T-0).

Witness Tests/Customer Inspection. Standard factory tests may be witnessed by the Buyer at Seller's factory for an additional charge per Product type. Buyer may final-inspect Products at the Seller's factory for an additional charge per Product type. Pricing will be provided at the time of quotation.

Warranty for Products. Unless provided separately to Buyer, Seller warrants that the Products manufactured by it will conform to Seller's applicable specifications and be free from failure due to defects in workmanship and material for one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

In the event any Product fails to comply with the foregoing warranty Seller will, at its option, either (a) repair or replace the defective Product, or defective part or component thereof, F.O.B. Seller's facility freight prepaid, or (b) credit Buyer for the purchase price of the Product. All warranty claims shall be made in writing.

Seller requires all non-conforming Products be returned at Seller's expense for evaluation unless specifically stated otherwise in writing by Seller. This warranty does not cover failure or damage due to storage, installation, operation, or maintenance not in conformance with Seller's recommendations, including as set forth in these Terms and Conditions of Sale, and industry standard practice or due to accident, misuse, abuse, or negligence. This warranty does not cover breach of data or system security, including that of information technology infrastructure, computers, software, hardware, databases, electronic systems (including database management systems), and networks. This warranty does not cover reimbursement for labor, gaining access, removal, installation, temporary power, or any other expenses, which may be incurred in connection with repair or replacement. This warranty does not apply to equipment not manufactured by Seller. Seller limits itself to extending the same warranty it receives from the third-party supplier, to the extent such third party permits assignment of its warranty.

Limitation on Warranties for Products. THE FOREGOING WARRANTIES ARE EXCLUSIVE EXCEPT FOR WARRANTY OF TITLE. SELLER DISCLAIMS ALL OTHER WARRANTIES INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. CORRECTION OF NON-CONFORMITIES IN THE MANNER AND FOR THE PERIOD OF TIME PROVIDED ABOVE SHALL CONSTITUTE SELLER'S SOLE LIABILITY AND BUYER'S EXCLUSIVE REMEDY FOR FAILURE OF SELLER TO MEET ITS WARRANTY OBLIGATIONS, WHETHER CLAIMS OF THE BUYER ARE BASED IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE.



Date: February 8, 2024
To: Michael Buxton, George L Wilson and Co. , Inc.
From: Rich Kolesar, All-Phase Electric Pittsburgh
Subject: Three (3) Eaton 9PXM-8kVA 120/208-240V UPS Systems
Quote #: CEB202402009 Revision 1
Project: WV DOT CRFQ240000049 Addendum 2

Mike,

Thank you for the opportunity to submit this quotation to provide a new Eaton 9PXM Modular UPS System for WV DOT for your review and consideration.

Each of the Three (3) UPS Systems includes One (1) 12-Slot UPS Cabinet, One (1) Rack Mount Kit for the UPS Chassis, Two (2) 4kVA Power Modules, Eight (8) Battery Modules, a Gigabit Network-M2 Ethernet Communications Card, and a Wall-mounted hardwired Input and Output Maintenance Bypass Switch with Receptacles Output, model BPM125ER. The Battery Strings will provide Seventeen (17) minutes of back-up run-time at the fully-rated load of 8kVA when new. On-Site UPS Chassis and Module Rack Installation and Factory Start-up Service for Three (3) Systems, and a 5-Year Depot Advanced Exchange Extended Warranty is included.

Also quoted are a total of Eight (8) EMI200-10 Gen3 enclosure PDUs and Eight (8) Environmental Monitor Probes (Gen2). The enclosure PDUs are no longer being stocked and are custom made-to-order, and can expect a 90-day lead time. There is no direct replacement in the new Gen4 design with an L14-30P Plug.

All equipment quoted is factory-new. The UPS and accessories are assembled by Eaton in Raleigh, NC. The modules will be need to be installed into the Chassis of the UPS Systems by the end-user or electrical contractor. Electrical Installation is not included, and the system is allowed to be started by the end-user.

The prices do not include freight, unless the Standard Freight Option is added. Standard Freight is FOB Origin, but FOB Destination may be added with the Optional Price Adder indicated.

Lead time is currently 4-6 weeks for the 9PXM UPS Systems, and 90 Days for the ePDUs.

TERMS AND CONDITIONS

Terms: Standard CED terms
Freight: Included, dock-to-dock

FOB: Destination
Shipment: 4-6 Weeks ARO

This quotation is valid for 30 days from the date prepared. Orders must be released into production within 60 days of Order Entry or they will be subject to any price increases between the order entry date and the time of shipment.

Shipment on all equipment is currently 5-6 weeks after receipt of approved submittal drawings and with approved credit and typically two days transit time from the factory in Raleigh, NC.

A full loading dock with leveling plate or a forklift will be required on-site for delivery of the equipment.

The above pricing does include freight, but does not include inside delivery, installation or sales tax. Drawing submittal (if required) can be prepared and submitted in three days from receipt of order. All orders will be subject to all applicable sales tax unless a current tax exemption certificate is on file covering that state shown as the ship to address or service location on your purchase order.

Eaton Corporation's Terms and Conditions (copy attached) apply to this proposal. Any additional or different terms proposed by the customer in its purchase order or otherwise, shall not be binding upon Eaton Corporation and hereby rejected unless expressly agreed to in writing by Eaton Corporation. Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.