

# Eaton MX UPS



## Product Snapshot

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**Power Rating:** 5-20 kVA  
**Voltage:** 120/156 to 208 Volts  
**Frequency:** 50/60 Hz Autoselect  
**Configuration:** Rackmount (3U) / Tower

## Features

- Double Conversion UPS technology for 100% compatibility with any application, environment or genset
- High density, versatile rack/tower form factor for standalone UPSs or scalable frames
- Up to 97% efficiency to conserve energy and modular, scalable frame design for N+1 dynamic redundancy
- Automatic by-pass and hot-swappable power module for high availability
  - Extended runtime capabilities with multiple, hot-swappable battery modules (optional)
- Money-saving design utilizes common modules for standalone UPS or scalable frame

## Flexibility

- Multilingual LCD with mimic and LEDs for rapid view of the UPS status, diagnostics and event log
- Outputs: NEMA L6-30R, 30A outlets and terminal block for hardwired installations
- Backup time: five minutes up to two hours by adding 3U battery modules

## Minimum total cost of ownership (TCO)

- Compatibility with last generation server power supplies
- MX Frame is a modular system with 5 kVA units paralleled to provide up to 20 or 15 kVA with redundancy

## Ideal protection for:

- Departmental networks
- Rack cabinets
- Blade servers
- Storage networks
- Telecom—Switches/VoIP



Powering Business Worldwide

## Eaton MX... pay as you grow!

Seamless migration from 5 kVA to 20 kVA at optimized cost

The MX is a truly scalable optimized rack solution that allows you to add power as your business grows. You are able to easily expand your system from 5 kVA up to 20 kVA, while protecting your initial investment, by simply adding an MX Frame and/or more submodules. The base unit provides 208V, which is now the standard for next-generation blade servers and enterprise IT equipment. Add one or several modular 2U transformers to power any remaining 120V devices in 5 kVA increments.

You can also build in the level of redundancy that is required for your mission critical application.



5 kVA Standalone → 20 kVA Frame



### Designed For Blade Server Environment

The MX has been designed with virtualization in mind. It comes with a free power management suite that provides unrivaled benefits.

- You can deploy network shutdown modules (NSMs) for the various operating systems (OSs) on the blades through the host VMware ESX or Microsoft Hyper-V OS. A single installation, instead of multiple ones, saves time and money.
- The NSM software can also manage any kind of redundant arrangement, whether it is at the server level or the UPS level. Avoid premature shutdown of your IT system while you still have several levels of redundancy available.
- Up to five UPSs can be remotely monitored using the free copy of the IPM power infrastructure management tool included. Fifty-device or unlimited versions are also available.

- UPS-protected devices, such as servers, can be shutdown automatically with NetWatch 5.0 software.



Eaton NetWatch Client 5.0 has tested compatible with Cisco Unified Communications Manager 4.3. Go to [www.eaton.com/PQ/cisco](http://www.eaton.com/PQ/cisco) for disclaimer.

### Services

- Two-year warranty, including batteries
- Associated services*
- Extended warranties (three and five years)
  - Commissioning

## Scalability—Add the backup time you need!

*MX Frame: Extended runtime recommendations*

With the MX Frame, you are able to add battery modules to get the amount of backup time that you need. Please refer to the chart below for your extended battery configuration options.

*Note: For configurations with extended battery modules, output power factor is 0.7.*

### How to order an MX 16U Frame with extended runtime

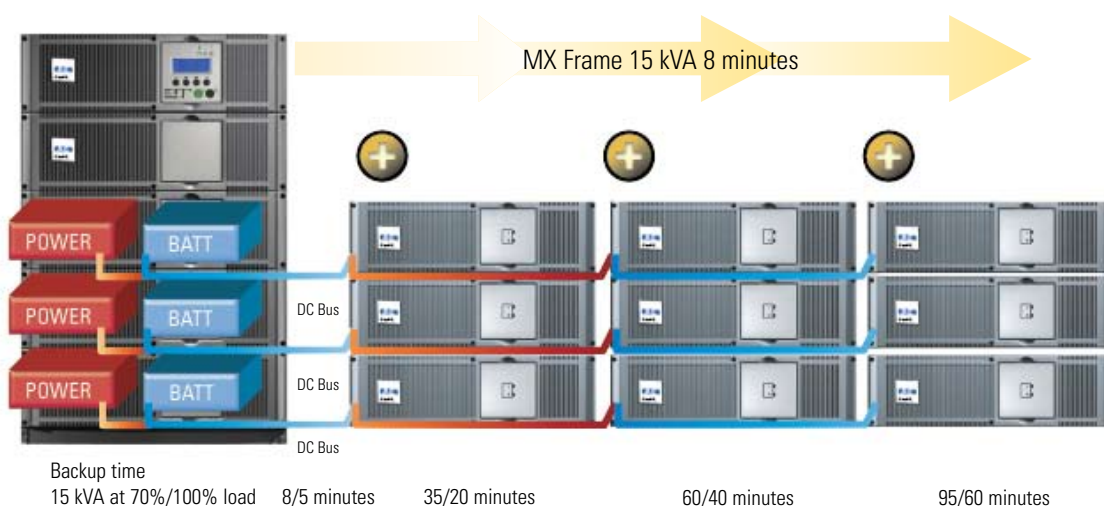
		UPS WITH 1 RUNTIME EXTENSION			UPS WITH 2 RUNTIME EXTENSIONS			UPS WITH 3 RUNTIME EXTENSIONS		
		QTY	PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION
10U 10 kVA Frame	5 kVA	1	87015	15 kVA UPS bundle (upgradeable to 20 kVA)	1	87015	15 kVA UPS bundle (upgradeable to 20 kVA)	1	87015	15 kVA UPS bundle (upgradeable to 20 kVA)
		1	68528	6-foot battery cable	1	68528	6-foot battery cable	1	68528	6-foot battery cable
		1	87103	Ext. battery module (3U)	2	87103	Ext. battery module (3U)	3	87103	Ext. battery module (3U)
	10 kVA	1	87010	10 kVA UPS bundle	1	87010	10 kVA UPS bundle	1	87010	10 kVA UPS bundle
		2	68528	6-foot battery cable	2	68528	6-foot battery cable	2	68528	6-foot battery cable
		2	87103	Ext. battery module (3U)	4	87103	Ext. battery module (3U)	6	87103	Ext. battery module (3U)
16U 20 kVA Frame	15 kVA	1	87415	15 kVA UPS bundle (upgradeable to 20 kVA)	1	87415	15 kVA UPS bundle (upgradeable to 20 kVA)	1	87415	15 kVA UPS bundle (upgradeable to 20 kVA)
		3	68528	6-foot battery cable	3	68528	6-foot battery cable	3	68528	6-foot battery cable
		3	87103	Ext. battery module (3U)	6	87103	Ext. battery module (3U)	9	87103	Ext. battery module (3U)
	20 kVA	1	87420	10 kVA UPS bundle	1	87420	10 kVA UPS bundle	1	87420	10 kVA UPS bundle
		4	68528	6-foot battery cable	4	68528	6-foot battery cable	4	68528	6-foot battery cable
		4	87103	Ext. battery module (3U)	8	87103	Ext. battery module (3U)	12	87103	Ext. battery module (3U)

### MX Frame rear view (optional caster kits available)

OPTIONS	PART NO.	DESCRIPTION
For freestanding installation, add: (various configurations available—consult factory for options)	87410	Caster kit for MX Frames—wheels/floor mounts/seismic brackets to attach directly to MX Frame
	86005	Caster cart/integration kit—platform with wheels/floor mounts/seismic brackets to stack EXBs and/or Frame
For 120V output, add: (various configurations available—consult factory for options)	87102	MX 5000 RT (2U) Transformer—plug-and-play (one or two for 10U to frame/up four for 16U frame)
	87482	MX-K 20 kVA Transformer—hardwired input and output



### Example: Battery extension for MX Frame 15 kVA configuration



## MX STANDALONE MODELS

Catalog Number	Style Number	Description	Rating (VA/Watts)	Input Connection	Output Receptacles	Dimensions (H x W x D, inches)	Weight (lb)	List Price
PULSMXG5000-XL3U	87050	MX 5000 VA RT	5000/4500	Terminal Block with L6-30 cord	Hardwired, (4) L6-30R	5.14 (3U) x 17.50 x 27.60	125.7	\$4,150
PULSMXL5000-XL5U	87150	MX 5000 VA RT LV	5000/4500	Terminal Block with L6-30 cord	Hardwired, (3) L6-30R, (2) L5-20R, (6) 5-20R	8.64 (5U) x 17.50 x 27.60	209.7	\$5,400

## MX FRAME ENCLOSURES: 208/240V

Catalog Number	Style Number	Description	Rating (VA/Watts)	Input Connection	Output Receptacles	Dimensions (H x W x D, inches)	Weight (lb)	List Price
PULSMXG0K10-XL10U	87011	MX 10U	Scalable to 10 kVA Frame Empty	Hardwired	Hardwired, (4) L6-30R	16.70 (10U) x 17.50 x 28.20	99.2	\$4,808
PULSMXG5K10-XL10U	87015	MX 10U	Scalable to 10 kVA Frame Empty	Hardwired	Hardwired, (4) L6-30R	16.70 (10U) x 17.50 x 28.30	190.0	\$7,560
PULSMXG10K10-XL10U	87010	MX 10U	10000/9000 Frame 10 kVA	Hardwired	Hardwired, (4) L6-30R	16.70 (10U) x 17.50 x 28.40	280.0	\$9,862
PULSMXG0K20-XL16U	87021	MX 16U	Scalable to 20 kVA Frame Empty	Hardwired	Hardwired, (8) L6-30R	31.30 (16U) x 17.50 x 29.10	157.0	\$5,192
PULSMXG15K20-XL16U	87415	MX 16U	Scalable to 20 kVA Frame 15 kVA	Hardwired	Hardwired, (8) L6-30R	31.30 (16U) x 17.50 x 29.20	428.0	\$12,099
PULSMXG20K20-XL16U	87420	MX 16U	20000/18000 Frame 20 kVA	Hardwired	Hardwired, (8) L6-30R	31.30 (16U) x 17.50 x 29.30	517.0	\$14,275

## MX OPTIONS

Catalog Number	Style Number	Description	Dimensions (H x W x D, inches)	Weight (lb)	List Price
72-153653-01	72-153653-01	8' input cable with L6-30P	15.48 (9U) x 17.49 x 28.00	-	\$159
PULSMXL5000-XFMR2U	87102	MX Transformer 5 kVA	3.50 (2U) x 17.50 x 25.60	84.0	\$1,250
PULSMXG5000-PWR	87100	MX Power Sub-module	7.80 x 5.00 x 23.74	32.0	\$1,965
68528	68528	MX 6-foot battery cable	-	-	\$63
87410	87410	Caster/Floor Mount Kit for MX Frame	-	-	\$181
PULSMXN20K-XFMR	87482	MX-K 20 kVA Transformer	21.00 x 17.50 x 28.00	322.0	\$6,999
Extended Battery Modules					
PULSMXG5000-EBM3U	87103	MX EBM	5.14 (3U) x 17.50 x 25.60	154.0	\$1,403
PULSMXG5000-BAT	87101	MX Battery Sub-module	4.57 x 8.44 x 19.60	72.0	\$533
86005	86005	Battery Integration Kit	-	-	\$577

Note: For replacement parts, please contact our Service Group at 800.356.5737 for pricing.

## SOFTWARE AND CONNECTIVITY OPTIONS

Catalog Number	Description	List Price
66102	Network Management Card Mini-Slot	\$249

See software and connectivity product sections for more detail.



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Finland: 358.94.52.661  
France: 33.1.6012.7400  
Germany: 49.0.7841.604.0  
Italy: 39.02.66.04.05.40  
Norway: 47.23.03.65.50  
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