

Eaton MX UPS



Product Snapshot

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

Features

- Online 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 on the host, instead of multiple installations on virtual machines, 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 10 IP addresses can be remotely monitored using the free copy of the Intelligent Power® Manager monitoring and management software included. Additional versions are also available: 11-100 or unlimited.

- 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 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

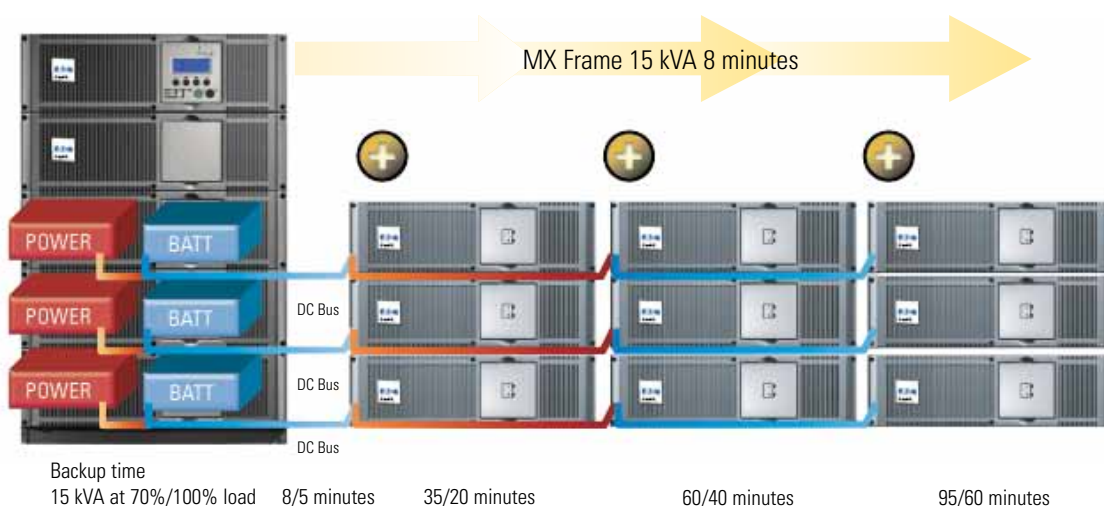
| | | UPS WITH 1 RUNTIME EXTENSION | | | UPS WITH 2 RUNTIME EXTENSIONS | | | UPS WITH 3 RUNTIME EXTENSIONS | | |
|------------------------|--------|------------------------------|----------|---|-------------------------------|----------|---|-------------------------------|----------|---|
| | | QTY | PART NO. | DESCRIPTION | QTY | PART NO. | DESCRIPTION | QTY | PART NO. | DESCRIPTION |
| 10U 10 kVA Frame | 5 kVA | 1 | 87015 | 5 kVA UPS bundle (upgradeable to 20 kVA) | 1 | 87015 | 5 kVA UPS bundle (upgradeable to 20 kVA) | 1 | 87015 | 5 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 | 20 kVA UPS bundle | 1 | 87420 | 20 kVA UPS bundle | 1 | 87420 | 20 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
Portugal: 55.11.3616.8500
Sweden: 46.8.598.940.00
United Kingdom: 44.1753.608.700

ASIA PACIFIC
Australia: 61.2.9693.9366
New Zealand: 64.0.3.343.3314
China: 86.21.6361.5599
HK/Korea/Taiwan: 852.2745.6682
India: 91.11.4223.2300
Singapore/SEA: 65.6825.1668

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