



ИБП Eaton МХ - ИБП серии Eaton МХ и МХ Frame - Листовка

Постоянная ссылка на страницу: <https://eaton-power.ru/catalog/eaton-mx/>

Eaton MX

4/5/8/10/15/20 kVA



Eaton MX versatility



Eaton MX Frame

Advanced protection for:

- Departmental networks, servers and workstations



Double conversion (on-line)

High performance UPS upgradeable from 4 kVA to 20 kVA

Continuous power supply

- Two front access hot-swappable sub-modules (power and battery) for maintenance without load interruption
- Automatic battery test (test period can be set)
- Internal bypass built-in to supply the load even if the UPS fails
- Large input voltage and frequency ranges to avoid using the batteries unnecessarily

Total flexibility

- Can be used as a free-standing tower unit or 19" rack-mounted: only 3U for Eaton MX 4000 and 5000, 16U for Eaton MX Frame
- LCD multilingual display with mimic and LEDs for rapid view of the UPS status, diagnostics and event log
- **Outputs:** IEC 10A and 16A outlet sockets and hardwired outputs.
- Built-in Powershare system for remote reboot of the equipment connected, sequential start-up or load shedding while operating from battery to maintain the power to critical loads
- Eaton MX Frame is compatible with three phase or single phase supplies
- **Backup time:** 10 mins up to 2 hours by adding 3U battery extension modules

Minimum total cost of ownership (TCO)

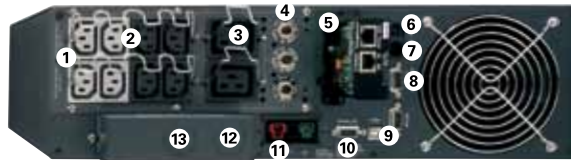
- More power with an output power factor of 0.9
- When the power supply needs to be upgraded, the Eaton MX 4000 and 5000 can be paralleled to provide 8 kVA or 10 kVA using the ModularEasy kit: without extra cost on the initial purchase
- Eaton MX Frame is a modular system with 5 kVA sub-modules paralleled to provide up to 20 kVA or 15 kVA with redundancy



Powering Business Worldwide

Eaton MX UPS

- 1 8 IEC 10A sockets
- 2 Retention clips
- 3 2 IEC 16A sockets
- 4 Output circuit protection
- 5 1 minislot for NMC, Modbus/JBus or MC Contacts/Serial card
- 6 RJ11 remote power off



Eaton MX 4000/5000

- 7 RJ45 EXB battery module detection
- 8 DB 9 with 5 output contacts
- 9 DB 9 serial and USB ports
- 10 DB 15 for paralleling
- 11 EXB battery extension module power connector
- 12 Input
- 13 Output

TECHNICAL SPECIFICATIONS	4000	5000	MX Frame 15000	MX Frame 20000
Rating (kVA/kW)	4 kVA / 3.6 kW	5 kVA / 4.5 kW	15 kVA / 13.5 kW	20 kVA / 18 kW

Paralleling	4000	5000	MX Frame 15000	MX Frame 20000
Maximum rating / redundancy ⁽¹⁾	8 kVA / 4 kVA + 4 kVA redundancy	10 kVA / 5 kVA + 5 kVA redundancy	15 kVA / 10 kVA + 5 kVA redundancy 5 kVA + 2 x 5 kVA redundancy	20 kVA / 15 kVA + 5 kVA redundancy 10 kVA + 2 x 5 kVA redundancy

Inputs	VFI-SS-113, on-line double conversion with power factor correction, convection cooled static bypass switch			
Technology	VFI-SS-113, on-line double conversion with power factor correction, convection cooled static bypass switch			
Number of phases, input connections	L + N, terminals up to 6 mm ²	L + N, terminals up to 6 mm ²	L + N or 3P + N, terminals up to 35 mm ² , separate or common AC normal and AC bypass	
Nominal voltage	200/208/220/230/240/250 V	200/208/220/230/240/250 V	200/208/220/230/240/250 V (L + N) or 380/400/415 V (3P + N)	
Voltage range without using battery ⁽²⁾	120 - 280 V	120 - 280 V	120 - 280 V (L + N), 250 - 465 V (3P + N)	
Input frequency range, THDI	40-70 Hz, < 7%			

Outputs	Terminals + 8 IEC C13 (10A) + 2 IEC C19 (16A)			
Output connections ⁽³⁾	Terminals + 8 IEC C13 (10A) + 2 IEC C19 (16A)			
Remotely controlled Powershare sockets	2 groups (2 IEC C13 10A per group)			
Output voltage and frequency ⁽⁴⁾ , THDU, efficiency ⁽⁵⁾	200/208/230/240 /250 V, 50 / 60 Hz autoselect, frequency converter as standard, < 2%, 97%			

Backup time ⁽⁶⁾	4000	5000	MX Frame 15000	MX Frame 20000
Eaton MX standard backup time	10 minutes	8 minutes	8 minutes	8 minutes
Eaton MX + EXB / MX + 2 EXB / MX + 3 EXB	45 / 80 / 120 minutes	35 / 60 / 95 minutes	35 min (3 EXB)/60 min (6 EXB) /90 min (9 EXB) ⁽⁷⁾	35 min (4 EXB)/60 min (8 EXB) /90 min (12 EXB)

Communications	1 slot (MX) or 2 slots (MX Frame) for Network Management Card, NMC ModBus/JBus card or MC Contacts/Serial card			
Slots	1 slot (MX) or 2 slots (MX Frame) for Network Management Card, NMC ModBus/JBus card or MC Contacts/Serial card			
Ports	Remote Power off (RJ11), 5 output contacts (DB9), setup using Solution-Pac ⁽⁸⁾ , (USB and DB9-serial ports), EXB module detection (RJ45), paralleling (DB 15)			

Operating conditions, standards and approvals	IEC/EN 62 040-3, IEC/EN 62 040-1, IEC/EN 62 040-2 class A (class B as option), 4 kV IEC 61 643, UL 1778 and CSA 22.2 ⁽⁹⁾			
Performance, safety, EMC, surge protection	IEC/EN 62 040-3, IEC/EN 62 040-1, IEC/EN 62 040-2 class A (class B as option), 4 kV IEC 61 643, UL 1778 and CSA 22.2 ⁽⁹⁾			
Operating temperature, noise, approvals, guarantee	0°C to 40°C continuous, 45 dbA ⁽¹⁰⁾ , UL, TÜV, GS mark, CB, C-Tick, CE, IEC 61 931, one year ⁽¹¹⁾			

Dimensions H x W x D / Weight	Tower 690mm high (795mm casters) x444.5mm wide x735mm deep / 250 kg			
Eaton MX standard backup tower	444.5 mm x 130.6 mm x 735 mm / 57 kg			
Eaton MX standard backup rack	3U x 444.5 mm wide compatible with 800-1000 mm deep rack			
Eaton MX EXB battery unit tower / rack	444.5 mm x 130.6 mm x 650 mm / 3U x 444.5 mm wide / 70 kg			
Eaton MX ModularEasy, paralleling kit	Dimensions same as EXB battery unit / 10 kg			

Customer Service & Support	1 year guarantee, including batteries.			
Warranty+	Optional 3-years warranty (depending on the country please visit www.eaton.com/powerquality)			

1: Eaton MXs can be paralleled using ModularEasy. 2: At 70% load. 3: 4 IEC C13 (10A) 2 m long cables for use with retention clips (8 cables for use with Eaton MX Frame). 4: Frequency conversion for non-paralleled units only. 5: Economy mode, 91% in normal mode. 6: At 70% nominal rating with power factor 0.7 typical values after 3 charge/discharge cycles, with 3-5 years old batteries. Weekly battery test without interrupting the load (daily or monthly if required). EXB compatible with 0.8 power factor loads. 7: With Eaton MX Frame EXB (4 battery units). 8: Solution-Pac CD-ROM supplied as standard. 9: Applicable to US models. 10: 50 dbA above 5 kVA. 11: Depending on the country, see www.eaton.com/powerquality.

Part Numbers	MX 4000	MX 5000	MX Frame 15000	MX Frame 20000
Eaton MX Tower or rack-mounting: standard backup time	68 501	68 504	68 513 ⁽¹⁾	68 514 ⁽²⁾
Eaton MX Netpack: standard backup time + NMC + rack kit	68 502	68 505	68 513 ⁽¹⁾	68 514 ⁽²⁾
Eaton MX EXB: battery extension module	68 515	68 515	add multiple MX EXB : 68 515	
Eaton MX ModularEasy: paralleling kit (2 Eaton MX)	68 520	68 520	/	/
Eaton MX / EXB Rack Kit: rail kit for 19" rack mounting	68 002	68 002	/	/
IEC 32 A kit , 2 X 2 m long cables: male to hardwired and female to hardwired	68 525	68 525	/	/
MX 1,8 m Battery extension cable	68 528	68 528	68 528	68 528
MX Battery / Power electronics sub-module	68 524 / 68 522	68 524 / 68 523	68 524 / 68 523	68 524 / 68 523
Eaton MX Frame empty chassis	/	/	68 526	68 526
Battery Integration System (up to 9 EXB)	/	/	68 527	68 527

1: (with rack kit, casters, NMC card) 68 513 = 68 526 (empty Eaton MX Frame) + 3 x 68 524 + 3 x 68 523.
2: (with rack kit, casters, NMC card) 68 514 = 68 526 (empty Eaton MX Frame) + 4 x 68 524 + 4 x 68 523.

