Eaton EX M



Eaton EX 1500



Advanced vessel or rig power protection for:

- Bridge systems
- Navigation systems
- Communication systems
- Small computer systems



Double conversion (on-line)

Maximum availability

- DNV and ABS type approved UPS
- Double conversion on-line UPS with automatic by-pass and power factor correction
- Powershare: the Eaton EX output sockets are individually controlled to provide load-shedding to maximize the backup time and provide remote reboot and sequential start-up as standard
- Continuous power supply: Hot swappable batteries. The HotSwap MBP (Maintenance By-Pass) module allows the UPS to be replaced without interrupting the power supply

Minimum total cost of ownership

- Easy operation: the LCD gives you access to a wide range of measurements and set-up menus
- Remote supervision: the Eaton software suite offers a wide range of communication option including: SNMP and HTML, ModBus/JBus and relay outputs

Total flexibility

Eaton EX has unmatched Flexibility.

- Format: Eaton EX Marine 1500 is available in RT2U convertible rack/tower format (compatible with short-depth rack). EX 2200 & 3000 Marine models are available in RT3U (for tower or short-depth racks)
- Connections: with FlexPDU and HotSwap MBP, the RT2U and RT3U models can be connected by sockets or terminal blocks. They can be installed as required, on the side or on top of the unit
- Compatible with high power factor loads: Eaton EX Marine is rated for 0.9 power factor (1500 VA/1350 W, 2200 VA/1980 W and 3000 VA/2700 W)
- Communication: the EX includes both serial and USB ports, plus remote On/Off connector and an extra slot for optional communication cards. The UPS comes with a complete Eaton software suite.



Eaton EX M UPS Technical Specifications

- 1 LCD Multilingual display
 - 6 languages,
 - displays measurements,
 - displays alarms,
- access to control and set-up menus.
- 2 Panel for batteries replacement (Hot swappable)





- 3 1 USB port + 1 serial port + remote ON/OFF and emergency stop inputs.
- 4 EXB battery unit connector.
- 5 EXB units recognised automatically.
- 6 8 IEC 10A sockets, including 4 Powershare programmable sockets and 1 IEC 16 A socket.
- 7 Communication card slot.
- 8 Mountings for HotSwap MBP and FlexPDU.

1500	2200	3000
1500 VA / 1350 W (1)	2200 VA / 1980 W	3000 VA / 2700 W (1)
RT2U	RT3U	RT3U
On-line double conversion with automatic by-pass and power fact	tor correction	
100/120/140/160 V to 284V - 40 to 70 Hz	100/120/160/184 V to 284V - 40 to	70 Hz
for load level <20% / <33% / <66% / >=66% of rated output	for load level <20% / <33% / <66%	/>=66% of rated output
230 V (adjustable to 200/208/220/240/250 V), 50/60 Hz auto-select of	r 230 V (adjustable to 200/208/220/2	240 V),
frequency converter mode (2)	50/60 Hz auto-select or frequency	converter mode
1 IEC C14 (10 A) socket	1 IEC C20 (16A) or terminal block	on HotSwap
	MBP HW (Hard-Wired)	
6 IEC C13 (10 A) sockets	8 IEC C13 (10A) sockets + 1 IEC C	19 (16A) socket
2 independet groups: 2+1 IEC C13 (10 A) sockets	2 groups of 2 x IEC C13 (10A) soc	kets
4.FD/0.1.1		
4 FR/Schuko sockets or 3 BS sockets or 6 IEC 10A sockets or term	inal blocks (HW version)	
0.50/0.1.1		
8 FR/Schuko sockets or 6 BS sockets or 12 IEC IUA sockets		
13 min / 9 min	17 min / 12 min	15 min / 10 min
50 min / 35 min	85 min / 60 min	60 min / 40 min
180 min / 120 min	285 min / 200 min	190 min / 150 min
		gnition
of external battery units => continuous maximisation of backup tin	ne + deep discharge protection	
1 USB port + 1 RS232 serial port and relay contacts (3) + 1 mini terminal block for remote ON/OFF and emergency stop		
1 slot for NMC Minislot card (included in Netpack version) or NM	C ModBus/JBus or MC Contacts/S	erial
0°C to 40°C continuous, 45 dBA		
·		
IEC/EN 62 040-3 (VFI-SS-113) - IEC/EN 62 040-1-1, IEC/EN 60 950-1	(RD) - IEC/EN 62 040-2 C1 Class, IE	C/EN 60945
·	(RD) - IEC/EN 62 040-2 C1 Class, IE	C/EN 60945
IEC/EN 62 040-3 (VFI-SS-113) - IEC/EN 62 040-1-1, IEC/EN 60 950-1	(RD) - IEC/EN 62 040-2 C1 Class, IE	C/EN 60945
IEC/EN 62 040-3 (VFI-SS-113) - IEC/EN 62 040-1-1, IEC/EN 60 950-1	(RD) - IEC/EN 62 040-2 C1 Class, IE	C/EN 60945
	1500 VA / 1350 W (1) RT2U On-line double conversion with automatic by-pass and power fact 100/120/140/160 V to 284V - 40 to 70 Hz for load level <20% / <33% / <66% / >=66% of rated output 230 V (adjustable to 200/208/220/240/250 V), 50/60 Hz auto-select of frequency converter mode (2) 1 IEC C14 (10 A) socket 6 IEC C13 (10 A) sockets 2 independet groups: 2+1 IEC C13 (10 A) sockets 4 FR/Schuko sockets or 3 BS sockets or 6 IEC 10A sockets or term 8 FR/Schuko sockets or 6 BS sockets or 12 IEC 10A sockets 13 min / 9 min 50 min / 35 min 180 min / 120 min Automatic weekly test (period adjustable using LCD display or in sof external battery units => continuous maximisation of backup tin 3 LEDS + adjustable multilingual display: display of measurements 1 USB port + 1 RS232 serial port and relay contacts (3) + 1 mini ter	1500 VA / 1350 W (1) RT2U RT3U On-line double conversion with automatic by-pass and power factor correction 100/120/140/160 V to 284V - 40 to 70 Hz 100/120/160/184 V to 284V - 40 to 70 Hz 100/120/160/184 V to 284V - 40 to 70 Hz 100/120/160/184 V to 284V - 40 to 70 Hz 230 V (adjustable to 200/208/220/240/250 V), 50/60 Hz auto-select or 230 V (adjustable to 200/208/220/2frequency converter mode (2) 1 IEC C14 (10 A) socket 1 IEC C20 (16A) or terminal block MBP HW (Hard-Wired) 6 IEC C13 (10 A) sockets 2 independet groups: 2+1 IEC C13 (10 A) sockets 2 groups of 2 x IEC C13 (10A) soc 4 FR/Schuko sockets or 3 BS sockets or 6 IEC 10A sockets or terminal blocks (HW version) 8 FR/Schuko sockets or 6 BS sockets or 12 IEC 10A sockets 13 min / 9 min 50 min / 35 min 85 min / 60 min 180 min / 120 min Automatic weekly test (period adjustable using LCD display or in software supplied), automatic reco of external battery units => continuous maximisation of backup time + deep discharge protection 3 LEDS + adjustable multilingual display: display of measurements, access to control and set-up mer 1 USB port + 1 RS232 serial port and relay contacts (3) + 1 mini terminal block for remote ON/OFF and 1 slot for NMC Minislot card (included in Netpack version) or NMC ModBus/JBus or MC Contacts/S

Part Numbers

Description	Part Number	Dimensions (H x W x D)	Weight
EX 1500 RT2U Marine	68188	87 x 438 x 483	18 kg
EX 2200 RT3U Marine	68449	131 x 440 x 490	30 kg
EX 3000 RT3U Marine	68473	131 x 440 x 490	30 kg

Options

Description	Part Number
Marine Filter 3000 VA ^(*)	66886
EX EXB RT2U	68186
EX EXB	68405
EX Rack kit 2U/3U	68441
Network Card-MS	Network-MS
Network and MODBUS Card-MS	MODBUS-MS
Relay Card-MS	Relay-MS

*)The Marine Filter is required for the DNV and ABS compliance
In the interests of continuous product improvement all specifications are subject to change without notice.

