

# Eaton Evolution S

1250/1750/2500/3000 VA



## Line interactive

High density protection for network devices

### Maximum availability

- **Powershare:** the Eaton Evolution S output sockets are individually controlled to provide load-shedding to maximise the backup time and provide remote reboot and sequential start-up as standard
- **Continuous power supply:** Hot swappable batteries. The optional HotSwap MBP (Maintenance By-Pass) module allows the UPS to be replaced without interrupting the power supply
- **Long backup times:** 1 to 4 EXB battery units can be added to the Evolution S
- **Pure sinewave output:** when operating in batterie mode the Eaton Evolution still provides high quality output signal for sensitive connected equipment

### Minimum total cost of ownership

- **Line-interactive HF technology:** the best price/performance ratio
- **No additional cost:** all models are provided with tower stands and rail kits
- **Remote supervision:** a wide range of options using the Eaton Software suite, including point-to-point power management, SNMP, relay outputs, etc...

### Total flexibility

Evolution has unmatched Flexibility.

- **Format:** Evolution S is available in RT2U convertible rack/tower version (optimised for rack mounting) or RT3U (for tower or short-depth racks)
- **Connections:** with FlexPDU and HotSwap MBP the Evolution S can be connected by sockets or terminal blocks. They can be installed as required behind, on the side or on top of the unit
- **Compatible with high power factor loads:** the Evolution S are rated for 0.9 total power factor (1250 VA/1150 W, 1750 VA/1600 W, 2500 VA/2250 W and 3000 VA/2700 W)
- **Communication:** the Evolution S 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 Evolution S with EXB

### Applications

- Rack servers
- Tower servers
- Network devices
- Storage systems



Powering Business Worldwide

# Eaton Evolution S UPS

## 1250/1750/2500/3000 VA

- 1 Full user interface:
  - ON/OFF button for UPS and outlets
  - Load protected/ not protected LED
  - Utilised power level/Battery charge level
  - Status of switchable outlets
- 2 Panel for batteries replacement (Hot swappable)
- 3 1 x USB port + 1 x serial port + remote ON/OFF



- 4 EXB battery unit connector
- 5 EXB units recognised automatically
- 6 8 x IEC 10A sockets, including 4 x programmable sockets
- 7 Communication card slot

Eaton Evolution S 3000 RT2U

### Technical Specifications

	1250	1750	2500	3000
Rating (VA/W)	1250 VA / 1150 W	1750 VA / 1600 W	2500 VA / 2250 W	3000 VA / 2700 W
Format	RT2U (tower / rack 2U)	RT2U (tower / rack 2U)	RT2U (tower / rack 2U)	RT2U & RT3U

### Electrical characteristics

Technology	Line-Interactive High Frequency (Booster + Fader)			
Input voltage and frequency ranges without using batteries	160V-294V (adjustable to 150V-294V) 47 to 70 Hz (50 Hz system), 56.5 to 70 Hz (60 Hz system), up to 40 Hz in low-sensitivity mode (programmable using Personal Solution-Pac software).			
Output voltage and frequency	230 V (+6/-10 %) (Adjustable to 200 V (10 % derating of output power) / 208 V / 220 V / 230 V / 240 V), 50/60 Hz +/- 0.1 %			

### Connections

Input	1 x IEC C14 (10A) socket	1 x IEC C14 (10A) socket	1 x IEC C20 (16A) socket	1 x IEC C20 (16A) socket
Outputs	8 x IEC C13 (10A)	8 x IEC C13 (10A)	8 x IEC C13 (10A) sockets 1 x IEC C19 (16A) socket	8 x IEC C13 (10A) sockets 1 x IEC C19 (16A) socket
Remotely controlled sockets	2 groups of 2 x IEC C13 (10A)			
Additional outputs with HS MBP	4 x Aust 3 x Pin 6 x IEC 10A sockets or terminal blocks (HW version)			
Additional outputs with FlexPDU	4 x Aust 3 Pin or 12 x IEC 10A sockets			

### Batteries

Typical backup times for 50 and 70% load*				
Evolution S	20/14 min	14/9 min	17/11 min	15/10 min
Evolution S + 1 EXB	105/60 min	60/36 min	85/55 min	60/42 min
Evolution S + 4 EXB	300/200 min	180/115 min	290/200 min	210/135 min
Battery management	Automatic weekly test (period adjustable), automatic recognition of external battery units => continuous maximisation of backup time + deep discharge protection			

### Interfaces

Communication ports	1 x USB port + 1 x RS232 serial port and relay contacts (USB and RS232 ports cannot be used simultaneously) + 1 x mini terminal block for remote ON/OFF and Remote Power Off
Communications card slots	1 x slot for NMC Minislot card or NMC ModBus/JBus or MC Contacts/Serial

### Operating conditions, standards and approvals

Operating temperature	0 to 40°C			
Noise Level	< 45 dBA	< 45 dBA	< 50 dBA	< 50 dBA
Performance - Safety - EMC	IEC/EN 62040-1-1 (Safety), IEC/EN 62040-2 EN 50091-2 class B (EMC), IEC/EN 62040-3 (Performance), IEC/EN 61000-4-2, 61000-4-3, 61000-4-4; 61000-4-5, 61000-4-6, 61000-4-8 (EMI)			
Approvals	CE, CB report, TÜV			

### Dimensions W x D x H / Weight

Dimensions	440 x 509 x 86.2 (2U) mm	440 x 509 x 86.2 (2U) mm	440 x 634 x 86.2 (RT2U) mm 440 x 484 x 130.7 (RT3U) mm	440 x 634 x 86.2 (RT2U) mm 440 x 484 x 130.7 (RT3U) mm
Weight of the Tower/Rack	24.3 kg	26.6 kg	33.8 kg	33.8 kg (RT2U) - 34.3 kg (RT3U)
Dimensions of EXB	See UPS			
Weight of the EXB	30.4 kg	30.4 kg	41.7 kg	41.7 kg

### Customer Service & Support

2 years warranty	Standard product exchange, including the battery			
Warranty+	Optional 3-years warranty (depending on the country please visit <a href="http://www.eaton.com/powerquality">www.eaton.com/powerquality</a> )			

\* Runtimes are shown at 0.7 power factor. Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.

### Part Numbers

	S 1250 RT2U	S 1750 RT2U	S 2500 RT2U	S 3000 RT3U	S 3000 RT2U
Convertible Tower/Rack	M68456	M68459	M68463	M68464	M68465
EXB Models	M68470	M68470	2U = M68472 - 3U = M68471	2U = M68472 - 3U = M68471	2U = M68472 - 3U = M68471



Eaton Industries Pty. Ltd.  
Electrical Group  
Head Office:  
10 Kent Road Mascot,  
NSW 2020 Australia  
1300 UPS UPS (1300 877 877)  
[www.eaton.com/powerquality](http://www.eaton.com/powerquality)

LanSafe, Eaton, ePDU, Flex, PowerChain Management, PowerTrust, Powerware, PowerPass, X-Slot, and PowerVision are trade names, trademarks, and/or service marks of Eaton Corporation. All other trademarks are the property of their respective owners.

© 2008 Eaton Corporation  
All Rights Reserved  
Printed in AUS NOVAFXA-AUS  
November 2008