

# Eaton Evolution

650/850/1150/1550/2000 VA



1U rack model & tower model

#### Advanced protection for:

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



#### Line interactive

High density protection for network devices

#### Maximum availability

- **Powershare:** the Eaton Evolution 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
- **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:** rack 1U and RT models are provided with the 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 is available in tower format, rack 1U format, RT2U convertible rack/tower (2kVA model)
- **Communication:** the Evolution 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

Powering Business Worldwide

# Eaton Evolution UPS

## 650/850/1150/2000 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 USB port + 1 serial port + remote ON/OFF
- 4 4 IEC 10A sockets, including 2 programmable sockets
- 5 Communication card slot

Eaton Evolution 1550 Tower

### Technical Specifications

	650	850	1150	1550	2000
Rating (VA/W)	650 VA / 420 W	850 VA / 600 W	1150 VA / 770 W	1550 VA / 1100 W	2000 VA / 1600 W
Format	Tower or 1U Rack	Tower or 1U Rack	Tower or 1U Rack	Tower or 1U Rack	RT2U (tower / rack 2U)

### 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 IEC C14 (10 A) socket				
Outputs	4 IEC C13 (10 A)	4 IEC C13 (10 A)	4 IEC C13 (10 A)	4 IEC C13 (10 A)	8 IEC C13 (10 A)
Remotely controlled sockets	2 groups of 1 x IEC C13 (10 A)	2 groups of 1 x IEC C13 (10 A)	2 groups of 1 x IEC C13 (10 A)	2 groups of 1 x IEC C13 (10 A)	2 groups of 2 x IEC C13 (10 A)
Additional outputs with HS MBP	4 FR/Schuko sockets or 3 BS sockets or 6 IEC 10 A sockets or terminal blocks (HW version)				
Additional outputs with FlexPDU	8 FR/Schuko sockets or 6 BS sockets or 12 IEC 10 A sockets				

### Batteries

Typical backup times for 50 and 70% load	9/6 mn	16/7 mn	14/7 mn	14/7 mn	14/7 mn
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 USB port + 1 RS232 serial port and relay contacts (USB and RS232 ports cannot be used simultaneously) + 1 mini terminal block for remote ON/OFF and Remote Power Off				
Communications card slots	1 slot for NMC Minislot card or NMC ModBus/JBus or MC Contacts/Serial				

### Operating conditions, standards and approvals

Operating temperature	0 to 35°C	0 to 35°C	0 to 35°C	0 to 40°C	0 to 40°C
Noise level	< 40dbA	< 40dbA	< 40dbA	< 40dbA	< 45 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, TUV				

### Dimensions W x D x H / Weight

Dimensions of the Tower	147 x 418 x 234 mm	147 x 418 x 234 mm	147 x 418 x 234 mm	147 x 492 x 234 mm	440 x 509 x 86.2 (2U) mm
Dimensions of the Rack	438 x 366 x 43.2 (1U)	438 x 512 x 43.2 (1U)	438 x 512 x 43.2 (1U)	438 x 556 x 43.2 (1U)	440 x 509 x 86.2 (2U)
Weight of the Tower/Rack	8.4/10.1 kg	10.85/16.1 kg	12.5/16.6 kg	16.53/20 kg	25.7 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> )				

### Part Numbers

	650	850	1150	1550	2000 RT2U
Tower	68 450	68 452	68 454	68 457	/
Rack1U	68 451	68 453	68 455	68 458	/
Convertible Tower/Rack	/	/	/	/	68 460

