

UPS

Evolution 650/850/1150/1550/2000

Evolution S 1250/1750/2500/3000

High density protection for network devices

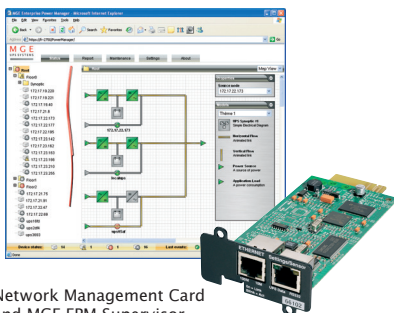
Maximum availability

- ▶ Powershare. Evolution output receptacles are individually controlled to provide load-shedding to maximize backup time and provide remote reboot and sequential start-up.
- ▶ Continuous power supply. Hot swappable batteries. The 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 (from 1250 to 3000).



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 Solution-Pac supplied: SNMP and HTML and relay outputs.



Network Management Card and MGE EPM Supervisor



Rack (1U) and Tower models

RT models

Flexibility

Evolution has unmatched Flexibility.

- ▶ Format. Evolution is available in tower format, rack (1U) format, RT2U convertible rack/tower version (optimized for rack mounting) or RT3U (for tower or short-depth racks).
- ▶ Connections. With FlexPDU and HotSwap MBP the Evolution provide a variety of receptacle options. 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 2800 VA/2700 W)
- ▶ Interfaces. USB + serial + remote start/stop + slot for optional communications card.

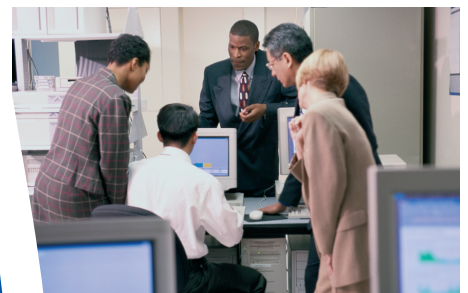


Protection for 1 to 15 servers, ideal for:

- ▶ network devices
- ▶ rack-mounted servers
- ▶ conventional rack-mounted or tower servers
- ▶ network storage systems



With its extremely compact size, Evolution is the ideal solution for making the best use of the available space.



With its many installation options, the Evolution is easily integrated into any environment: offices, point-of-sale terminals, 19" racks, etc.

M G E

Office Protection Systems



Evolution 850 VA



Evolution S 1250VA

- 1 Full user interface:
 - ON/OFF button for UPS and outlets
 - Load protected/ not protected LED
 - Utilized power level/Battery charge level
 - Status of switchable outlets
- 2 Panel for replacing batteries without interrupting the output.
- 3 1 USB port + 1 serial port + remote ON/OFF and emergency stop inputs.
- 4 EXB battery unit connector.
- 5 EXB units recognized automatically.
- 6 (4) 5-15R, including 2 programmable receptacles.
- 7 (6) 5-15/20R, including 2 programmable receptacles.
- 8 Communications card slot.

MGE Customer Service & Support

2 year guarantee, including batteries

Standard exchange of product in case of failure, including batteries.

Associated services:

Warranty+: 3 or 5 year extended guarantee.

Communications software and hardware

Solution-Pac software on CD-ROM with each UPS

For monitoring the server(s) powered by the UPS and for local and remote UPS supervision.

Network Management Card (NMC) 2006

For connecting the UPS to an Ethernet 10/100 network, raising SNMP alarms and supervising the UPS using a simple browser interface.

NMC environmental sensor

Monitoring the temperature, humidity and 2 relay contacts via SNMP or HTML.

Enterprise Power Manager supervisor

For comprehensive management of a set of UPSs using a Windows PC.

Management-Pac 2 suite

NMS integration kit: HP OpenView, IBM Tivoli Netview, CA Unicenter, etc.

Status Card ■ Contacts/Serial

Add a second relay contacts or Serial port to the UPS.

UPS Control remote display

To monitor the UPS status up to 80 feet from the unit.

Technical characteristics

| Model | Evolution | | | | | Evolution S | | | |
|--|---|-----------------|------------------|-------------------|-------------------|------------------------|---------------------------|-------------------|-------------------|
| | 650 | 850 | 1150 | 1550 | 2000 | 1250 | 1750 | 2500 | 3000 |
| Rating | 650 VA 420 W | 850 VA 600 W | 1150 VA 770 W | 1440 VA 1100 W | 1920 VA 1600 W | 1250 VA 1150 W | 1750 VA 1600 W | 2500 VA 2250 W | 2880 VA 2700 W |
| Format | 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 | 89V-151V (adjustable to 80V-153V) 56.5 to 70 Hz (60 Hz system) ⁽¹⁾ / 47 to 70 Hz (50 Hz system) | | | | | | | | |
| Output voltage and frequency | 120V (+6/-10%) ⁽²⁾ / 50/60 Hz +/- 0.1% | | | | | | | | |
| Connections | | | | | | | | | |
| Input | 5-15P | | 5-20P | | 5-15P | 5-20P | L5-30P | | |
| Output | (4) 5-15R | | (6) 5-15/20R | | (6) 5-15R | (6) 5-15/20R | (6) 5-15/20R + (1) L5-30R | | |
| Remotely, individually controlled receptacles | (2) 5-15R | | (2) 5-15/20R | | (2) 5-15R | (2) 5-15/20R | | | |

| Batteries | | | | | | | | | | |
|--|---|--------------------------|----------|--------------------------|------|------------------------|----------|--|---------------------|--|
| Typical backup times for 50 and 70% load (in minutes) ⁽³⁾ | | | | | | | | | | |
| Standard UPS | 9/6 | 16/7 | 14/7 | 14/8 | 14/7 | 20/14 | 14/9 | 17/11 | 15/10 | |
| Rack mount (1U) | | | | | | 105/60 | 60/36 | 85/55 | 60/42 | |
| Rack/Tower Versatile (2U) | | | | | | 300/200 | 180/115 | 290/200 | 210/135 | |
| Battery management | Automatic weekly test (period adjustable), automatic recognition of external battery units => continuous maximization of backup time + deep discharge protection | | | | | | | | | |
| Interfaces | | | | | | | | | | |
| Communication ports | 1 USB port + 1 RS232 serial port and relay contacts ⁽³⁾ + 1 mini terminal block for remote ON/OFF and Remote Power Off | | | | | | | | | |
| Communications card slot | 1 slot for NMC Minislot 2006 card or NMC ModBus/JBus or MC Contacts/Serial | | | | | | | | | |
| Operating conditions, standards and approvals | | | | | | | | | | |
| Operating temperature | 32° to 95° F | | | | | 32° to 104° F | | | | |
| Noise level | < 40dba | | | | | < 45 dBA | | < 50 dBA | | |
| Performance - Safety - EMC | IEC/EN 62040-1-1 (Safety), IEC/EN 62040-2 EN 50091-2 class A (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 | UL, cUL, CE, CB report | | | | | | | | | |
| Dimensions (WxHxD) in inches / Weight in lbs | | | | | | | | | | |
| Dimensions of the Tower | 9.2" x 5.8" x 16.5" | | | 9.2" x 5.8" x 19.4" | | 3.4"(2U) x 17.3" x 20" | | 3.4"(2U) x 17.3" x 25" 5.1"(3U) x 17.3" x 19.1" | | |
| Dimensions of the Rack | 1.7"(1U) x 17.2" x 14.4" | 1.7"(1U) x 17.2" x 20.2" | | 1.7"(1U) x 17.2" x 21.9" | | | | | | |
| Tower Weights | 18.5 lbs | 23.9 lbs | 27.6 lbs | 36.4 lbs | | 56.7 lbs | 53.6 lbs | 58.6 lbs | 74.5 lbs / 74.5 lbs | |
| Rack Weights | 22.3 lbs | 35.5 lbs | 36.6 lbs | 44.1 lbs | | | | | | |
| Dimensions of EXB | | | | | | 3.4"(2U) x 17.3" x 20" | | 5.1"(3U) x 17.3" x 19.1" | | |
| EXB Weights | | | | | | 67 lbs | | 91.9 lbs | | |

1: Up to 40 Hz in low-sensitivity mode (programmable using Personal Solution-Pac software).
2: USB and RS232 ports cannot be used simultaneously. 3: Runtime at 0.7 Power factor.

Part Numbers

| Evolution | 650 | 850 | 1150 | 1550 | 2000 | S 1250 | S 1750 | S 2500 | S 3000 | S 3000 |
|------------------------|-------|-------|-------|-------|-------|--------|--------|------------------------------|--------|--------|
| | | | | | RT2U | RT2U | RT2U | RT2U | RT3U | RT2U |
| Tower | 81700 | 81703 | 81705 | 81709 | - | - | - | - | - | - |
| Rack 1U | 81701 | 81704 | 81706 | 81710 | - | - | - | - | - | - |
| Versatile (2U) Twr/Rck | - | - | - | - | 81712 | 81708 | 81711 | 81714 | 81716 | 81715 |
| EXB Models | - | - | - | - | - | 81713 | | 81717 (RT2U) or 81707 (RT3U) | | - |

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