Eaton BladeUPS

12 – 60 kW

An Eaton Green Solution

Due to outstanding green performance, Eaton BladeUPS has earned the "An Eaton Green Solution"™ label

Advanced power protection for:

- Small, medium and large data centres
- Blade servers
- Network environment
- PBX and VoIP equipment
- Networking applications: IPTV, security
- Storage devices: RAID, SAN

Designed for the data centre – to ensure maximum uptime and maximum efficiency

Simply Scalable.

- Eaton BladeUPS provides scalable double-conversion backup power
- BladeUPS is designed for the data centre -to work in harmony with your servers and IT equipment to ensure maximum uptime and maximum efficiency
- Scalable architecture enables you to design, scale and grow your data centre as your demand grows.
- BladeUPS provides from 12kW to 60kW N+1 mounted in a single IT rack enclosure, with multiple power distribution options
- BladeUPS delivers an industry-leading 98% efficiency across the operating range, resulting in cooler operating conditions and less heat dissipation

Very Flexible.

- BladeUPS is extremely flexible and supports multiple configurations including power protection in each rack, centralised protection, zone protection or hybrid as required
- If your needs change or need to move your IT equipment, simply redeploy and reuse BladeUPS as single of parallel units elsewhere
- Multiple external batteries can be added to increase runtime
- BladeUPS has multiple power distribution options including the Rack Power Module (RPM), ePDUs or hardwired. The 3U RPM delivers single-phase power and can be deployed in the same rack as the UPS and IT equipment.

Highly Efficient

- Optimize your operational expenditure - Latest high efficiency technologies provide 98% efficiency, with 65% less heat dissipation to minimise your operational costs and reduce your carbon footprint
- A 60kW N+1 solution could save over €20,000 in 5 years in energy costs alone
- The small footprint of BladeUPS allows extra space for IT equipment in the rack and data centre.
- Due to the low heat dissipation, air conditioning requirements are reduced by up to a third and BladeUPS can be located close to IT equipment.
- Utilises Eaton's Advanced Battery Management system to prolong battery life by up to 50%

Simple to choose

- Choose a pre configured solution, or configure yourself

EATON

Powering Business Worldwide

TECHNICAL SPECIFICATIONS

General	
Power Rating	12 kW per UPS module
Efficiency	Up to 98,6 per cent
Heat Dissipation	371W/1266 BTU/hr at 100% rated load
Cooling	Fan cooled, temperature microprocessor monitored; front air entry, rear exhaust
Audible Noise, Normal Operation	<60 dBA at 1 meter
Altitude Before Derating	1000 meters (3300 ft ASL)

Input	
Input Voltage	400 Vac
Voltage Range	400V: 311 to 519 Vac, phase to phase
Frequency Range	50 or 60 Hz, ±5 Hz
Input Current Distortion	<5% with IT loads (PFC power supplies)
Input Power Factor	>0.99 with IT loads (PFC power supplies)
Inrush Current	Load dependent
Input Requirements	Three-phase, four-wire + ground
Bypass Source	Same as input (single feed)
Generator Compatibility	Fast sync slew rate for generator synchronisation

Output	
Rated Output Voltage	400V: 180 to 240 Vac, Ph to N
Output Configuration	Three-phase, four-wire + ground
Output Frequency (nominal)	50 or 60 Hz auto-detection on startup
Frequency Regulation	0.1 Hz free running
Load Power Factor Range	Lagging: 0.7 Leading: 0.9
Total Output Voltage Distortion	<3% with IT loads (PFC power supplies) <5% non-linear or non-PFC power supplies

Battery	
Battery Type	VRLA - AGM
Battery Runtime (Internal)	13 minutes at 50 per cent load 4.7 minutes at 100 per cent load
Battery String Voltage	240 Vdc
Battery Test	Automatic battery test standard (remote scheduling capable) Manual battery test from front display
Battery Recharge Profile	ABM three-stage charging technology
Battery Cut-off Voltage	Variable from 1.67 VPC at <5 min. runtime
Battery Low Condition	Announced with alarm
Extended Battery Capability	Yes, add up to four additional 3U battery enclosures (~34 min at 100 per cent load, >1 hour at 50 per cent load)

Physical	
Dimensions (HxWxD) UPS	261 (6U) x 442 x 660 mm
Note: Total Chassis Weight without batteries or electronics	46 kg
Total Chassis Weight with batteries or electronics	140 kg
Total UPS Weight without Batteries	61 kg
Total UPS Weight with Batteries	140 kg
EBM Weight	77 kg

Communications and User Interface	
Software Compatibility	UPS ships with Software Suite CD
X-Slot Bays	Two available for the cards listed below
Control Panel LCD	Two lines by 20 characters Four menu-driven interface buttons Four status at a glance LEDs
Multi-language	English standard; 20 languages available
Configuration Changes	User capable, firmware auto configures
Dry Contact Inputs	Two, user-configurable
Dry Contact Outputs	One, user-configurable

Service	
Installation	User capable, located in the IT racks
Preventative Maintenance	User capable, optional factory service available
Corrective Maintenance	User capable, optional factory service available
Serviceability Features	Hot-swappable batteries Hot-swappable electronics module Automated internal maintenance bypass Auto-configure firmware Flash firmware upgradeable

Certifications	
EMI	IEC 62040
Surge Protection	ANSI C62.41, Cat B-3
Hazardous Materials (RoHS)	EU Directive 2002/95/EC Category 3 (4 of 5)

Warranty	
Standard	12 months
Warranty Repair	Factory depot repair or replace

Options and Accessories
Detachable input cord
Detachable input/output cord assembly
Detachable paralleling cord assembly
Extended Battery Modules (EBMs)
3U output sub-distribution module
0U to 3U rack power strips
60 kW BladeUPS Parallel Bar
Four-post rail kit

Optional X-Slot Communication Cards	
Application	Card
Web SNMP	ConnectUPS-X Web/SNMP Card
Environment Monitoring	EMP Environmental Monitoring Probe (requires Web/SNMP card)
IBM eServer™ (i5™, iSeries™, or AS/400), industrial	Relay Interface Card
Parallel	Hot Sync Card
Remote LCD Display	ViewUPS-X

Recommended ePDU:	
Y032440CD100000	RPM - Rack Power Module (BladeUPS in, 12xC13 + 6xC19 out) 20 ft lead
PW107BA0UC08	ePDU - Basic (0U, Dual 16A C20 in, 24xC13+ 8xC19 out) use in addition to RPM
PW107MI0UC08	ePDU - IP Monitored (0U, Dual 16A C20 in, 24xC13+ 8xC19 out) use in addition to RPM