

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

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

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.

Eaton BladeUPS

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

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|--------------------------|---|
| 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

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|---------------------------------|--|
| 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

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|-----------------------------|--|
| 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

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|---|-------------------------|
| 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

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|------------------------|--|
| 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

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|--------------------------|---|
| 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

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|----------------------------|---|
| 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

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|---------------------------------------|
| 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

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|---|---|
| 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:

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|-----------------|---|
| 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 |



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