Eaton BladeUPS
12 – 60 kW

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 or parallel units elsewhere
- Multiple external batteries can be added to increase runtime
- BladeUPS has multiple power distribution options including the Rack Power Module (RPM), ePDU 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
# 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
- **Total Chassis Weight without batteries or electronics**: 46 kg
- **Total Chassis Weight with batteries**: 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**: 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**

## Recommended ePDU:
- **Y032440CD10**: RPM - Rack Power Module (BladeUPS in, 12xC13 + 6xC19 out) 20 ft lead
- **PW107BA01C08**: 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

Please visit [www.eaton.com/powerquality](http://www.eaton.com/powerquality) for more information.