

BladeUPS Technical Specifications

TECHNICAL SPECIFICATIONS

General

Power Rating	12kW per UPS module
Efficiency	Up to 98.6%
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 metre
Altitude Before Derating	1000 metres (3300 ft ASL)

Input

Input Voltage	400Vac
Voltage Range	400V: 311 to 519Vac, 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 240Vac, Ph to N
Output Configuration	Three-phase, four-wire + ground
Output Frequency (nominal)	50 or 60 Hz auto-detection on start-up
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% load 4.7 minutes at 100% load
Battery String Voltage	240Vdc
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 1.67VPC 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% load, >1 hour at 50%)

Physical

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

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
60kW 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 Monitoring	Modem 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

Due to continuing product improvement programmes, specifications are subject to change without notice.