

EATON

Powerware

Powerware 9390 Uninterruptible Power System

Product Focus

High efficiency 40 - 160 kVA UPS solutions



Product Snapshot

Technology: Series 9 (double conversion on-line)

Rating: 40-160 kVA at 0.9 p.f.

Voltage: 400 V 50/60 Hz

Features

- High efficiency - up to 94%
- Hot Sync® redundancy
- Advanced Battery Management (ABM™), providing significantly longer battery life time
- Active input Power Factor Correction (PFC) providing <5% THD(i) harmonics
- High output power factor for server and computer loads
- Extensive connectivity options
- User friendly LCD display with local language options

The Powerware® 9390 Uninterruptible Power System (UPS) is a double-conversion, Series 9 UPS that resolves all utility power problems and supplies clean, continuous, uninterruptible power to all critical equipment. Whether you're selecting a UPS for a branch office, a manufacturing floor, a medical facility, or a large data centre, there's a Powerware 9390 model that delivers just the right combination of performance for your needs - with the smallest footprint of any UPS in its class! The Powerware 9390 features active input power factor control (PFC) with IGBT rectifier technology, which enables low <5% THD(i) and a near unity input power factor, without compromising overall efficiency.

The Powerware 9390 operates at a high efficiency of up to 94%, which reduces utility costs and extends battery run times. Higher system efficiency produces cooler operating conditions, thus reducing facility air conditioning costs and extending the life of UPS components. This leads to increased reliability, availability, and performance.

The Powerware 9390 uses the unique Advanced Battery Management (ABM™) function: while traditional UPS's charge their batteries continuously, the ABM principle only charges the batteries when necessary, thus preventing battery corrosion. This exceptional ABM function significantly extends battery service life.

Powerware's patented Hot Sync® paralleling technology enables additional capacity or redundancy with Powerware 9390. Up to four equivalent UPS modules can be paralleled without the need for a system parallel cabinet.

Naturally, the Powerware 9390 UPS comes complete with Powerware's Software Suite of products, which provides monitoring, management, and optional shutdown capabilities over your network. Connectivity options are available to suit nearly any communication requirement, from standard serial communications to secure remote monitoring over the web.

Technical Specifications

| | | |
|-------------|--|------------------------------------|
| General | Rating | 40-160 kVA 0.9 p.f. |
| | Efficiency | 94% |
| | Audible noise | <65 dB (A) |
| Input | Nominal voltage | 400 V |
| | Frequency | 45-65 Hz |
| | Power factor | 0.99 |
| Output | Selectable voltage | 380/400/415 VAC |
| | Regulation | ±1% |
| | Power factor | 0.9 (e.g. 72 kW at 80 kVA) |
| Battery | Type | Maintenance free VRLA batteries |
| | Battery charging | Advanced Battery Management (ABM™) |
| | Battery voltage | 480 V (40 blocks) |
| Accessories | X-slot connectivity, isolation transformer, Hot Sync tie cabinet, 10 year battery cabinets and racks | |
| Markings | CE | |

Standard UPS

| Part number | Description | Rating | Dimensions (HxWxD) | Weight |
|-------------|----------------------|------------------|--------------------|--------|
| 1023295 | Powerware 9390-40-N | 40 kVA / 36 kW | 1872x519x804 mm | 285 kg |
| 1023296 | Powerware 9390-60-U | 60 kVA / 54 kW | 1872x519x804 mm | 313 kg |
| 1023297 | Powerware 9390-80-N | 80 kVA / 72 kW | 1872x519x804 mm | 313 kg |
| 1024635 | Powerware 9390-100-U | 100 kVA / 90 kW | 1872x900x804 mm | 430 kg |
| 1024636 | Powerware 9390-120-N | 120 kVA / 108 kW | 1872x900x804 mm | 430 kg |
| 1023298 | Powerware 9390-120-U | 120 kVA / 108 kW | 1872x900x804 mm | 530 kg |
| 1023299 | Powerware 9390-160-N | 160 kVA / 144 kW | 1872x900x804 mm | 530 kg |

Standard external battery

| Battery cabinets | Description | Rating | Dimensions (HxWxD) | Weight |
|------------------|---------------------|--------|--------------------|---------|
| TS0603B12122100 | Small 40-60 kVA BAT | 28 Ah | 1885x610x798 mm | 751 kg |
| TS0603B17122100 | Small 40-60 kVA BAT | 45 Ah | 1885x610x798 mm | 1066 kg |
| 1023244 | 9390-BAT10-40x55Ah | 55 Ah | 1885x1125x804 mm | 1270 kg |
| 1023245 | 9390-BAT10-40x67Ah | 67 Ah | 1885x1125x804 mm | 1430 kg |
| 1023983 | 9390-BAT10-40x125Ah | 125 Ah | 1885x1125x804 mm | 2350 kg |

Battery racks

| | | | | |
|---------|----------------------|--------|------------------|---------|
| 1023604 | 9390-RACK10-40x40Ah | 40 Ah | 1447x886x946 mm | 777 kg |
| 1023605 | 9390-RACK10-40x70Ah | 70 Ah | 1546x886x1546 mm | 1222 kg |
| 1023606 | 9390-RACK10-40x90Ah | 90 Ah | 1546x886x1546 mm | 1700 kg |
| 1023607 | 9390-RACK10-40x125Ah | 125 Ah | 1546x886x1546 mm | 2150 kg |

See runtime from the runtime specification.

Standard accessories

| | Description |
|---------|--|
| 1021887 | External Bypass Switch 60-80kVA (wall-mount) |
| 1021888 | External Bypass Switch 120 kVA (wall-mount) |
| 1024626 | External Bypass Switch 160 kVA (wall-mount) |
| 1023540 | SPM9390-80-4 |
| 1024506 | 9390 Tie Cabinet 3x160 kVA |

In the interests of continual product improvement all specifications are subject to change without notice.

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