

# EATON

# Powerware

## Powerware 9390 Uninterruptible Power System

Product Focus

40 - 160 kVA



### 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

	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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