

EATON

Powerware

Powerware® 9390

High efficiency 40 - 160 kVA UPS solutions



Features

- High efficiency - up to 94%
- Hot Sync® redundancy/ capacity up to 3 + 1 configuration
- Advanced Battery Management (ABM™), providing monitor and improved battery life time
- Active input Power Factor Correction (PFC) providing <5% THD(i) harmonics
- High 0.9 output power factor for server and computer loads
- Extensive connectivity options
- User friendly LCD display with local language options

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! 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.

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.

Powerware 9390 uses unique Advanced Battery Management (ABM™) function: while traditional UPS's charge their batteries continuously, 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, 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

POWERWARE 9390

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	XSlot connectivity (Web/SNMP, ModBus/JBus, Relay, Hot Sync), isolation transformer, parallel cabinets, 10 year battery cabinets and racks	
Markings	CE	



Standard UPS

Part number	Description	Rating	Dimensions (HxWxD)	Weight
1024993	9390-40i-N-4x1	40 kVA / 36 kW	1879x519x808 mm	257 kg
1024994	9390-60i-U-4x1	60 kVA / 54 kW	1879x519x808 mm	313 kg
1024995	9390-80i-N-4x1	80 kVA / 72 kW	1879x519x804 mm	313 kg
1024635	9390-100i-U-4x1	100 kVA / 90 kW	1879x944x804 mm	430 kg
1024636	9390-120i-N-4x1	120 kVA / 108 kW	1879x944x804 mm	430 kg
1023299	9390-160i-N-4x1	160 kVA / 144 kW	1879x944x804 mm	530 kg

Standard accessories

	Description	Installation	Dimensions (HxWxD)	Weight
1021887	External Bypass Switch 60-80 kVA (wall-mount)	wall	840x380x130 mm	17 kg
1021888	External Bypass Switch 120 kVA (wall-mount)	wall	1040x560x130 mm	25 kg
1024626	External Bypass Switch 160 kVA (wall-mount)	wall	1040x560x130 mm	25 kg
1025476	SPM-60-2 1+1 (wall-mount)	wall	700x500x250 mm	50 kg
1023540	SPM-80 kVA 3+1 system parallel module	floor	1530x520x788 mm	230 kg
1024687	PW9390 Tie Cabinet 3x120 kVA	floor	1879x519x808 mm	217 kg
1024506	PW9390 Tie Cabinet 3x160 kVA	floor	1879x519x808 mm	217 kg

In the interest of continual product improvement all specifications are subject to change without notice. Powerware®, Advanced Battery Management, LanSafe, PowerVision, and FORESEER are trademark(s) of Eaton Power Quality Corporation. © 2004 Eaton Corporation

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