



Powerware 9390 80kVA

To Receive Detailed Quotation Call: 800-306-1125

Condition	Pre-Owned
Model	9390-80
Config Number Serial Number	TB0811300030010 EY034CAA07
Phase	Three Phase
KVA	80kVA
Input Voltage	208VAC
Output Voltage	208/120VAC
Frequency (Hz)	60 Hz
Dimensions H x W x D	Inches 73.7" x 18.9" x 31.6"
Weight	640 lbs
Warranty	90 Days
Runtime Batteries	Available - Not Included
Price	10,000.00



Empty Battery Cabinet Included
Batteries available and vary upon request.

Data Sheet: <http://unitedpb.com/documents/powerware/9390.pdf>

Hardware Description:

- Powerware 9390 80kVA
- Year 2006
- Empty Battery Cabinet
 - Cabinet can support a wide variety of runtime option.
- Batteries available upon request
- Startup available upon request
- 90 Day Electronics Warranty

BUY

SELL

LEASE

RENT

TRADE

Features

- ▶ Provides unmatched power performance for efficiency, input current harmonic distortion (THD), and power factor
- ▶ Scalable for capacity and redundancy to meet present and future power needs
- ▶ Provides peace-of-mind that your batteries will be ready when you need them by innovative three-stage charging, battery health-checks, optional temperature-compensated charging, and remote monitoring
- ▶ Lowers installation time and costs with small footprint and the flexibility to install against walls, using top- or bottom-entry cabling
- ▶ Provides a two-year, limited factory warranty* on parts and labor, Start-up service, two years of remote monitoring, on-site preventive maintenance, and optional service plans

Powerware 9390 UPS

40 kVA-160 kVA power protection for critical systems



The Powerware® 9390 uninterruptible power system (UPS) is a double-conversion UPS that resolves all utility power problems and supplies clean, continuous, uninterruptible power to all connected equipment. Whether you're selecting a UPS for a branch office, manufacturing floor, medical facility, or a large data center, there's a Powerware 9390 model that delivers just the right combination of performance and price for your needs.

Advanced design delivers unequalled power performance

The innovative design of the Powerware 9390 delivers the industry's best performance combination of efficiency, input current distortion and power factor.

The Powerware 9390 operates at a high efficiency of up to 94 percent—which reduces utility costs and extends battery run times. Higher system efficiency produces cooler operating conditions, which reduces facility air conditioning cost, extends the life of UPS components, and increases overall reliability, availability, and performance.

A new input circuit design keeps input current THD low and input power factor near unity without compromising overall efficiency. As a result, the Powerware 9390 allows maximum transfer of power between power source and protected load and is exceptionally compatible with multiple power sources, especially auxiliary generators.

On the output side, the ultra high speed switching Pulse Width Modulation (PWM) inverter enables the Powerware 9390 to provide its full rated power capability to the load whether the load power factor is 0.9 lagging, unity, or 0.9 leading.

Double-conversion design offers the highest protection possible

Unlike some other commercially available UPS technologies, the double-conversion design completely isolates output power from all input power anomalies and delivers 100-percent conditioned, perfect sine-wave output—regulating both voltage and frequency.

Even when presented with the most severe power problems, power output remains stable. Voltage is held within two percent of nominal specification for linear loads, within three percent for non-linear loads—making this UPS ideal for equipment that is particularly sensitive to voltage fluctuations. In the event of a utility power failure, there is no delay transferring to backup power.

UPS control innovations optimize battery performance and service life

Powerware's patented Advanced Battery Management™ technology uses a unique three-stage charging technique that significantly extends battery service life and optimizes recharge time,



compared to traditional trickle charging. An integrated battery management system tests and monitors battery health and remaining lifetime, and provides advance notification to guide preventive maintenance. Optional temperature-compensated charging monitors temperature changes and adjusts the charge rate accordingly, which properly charges the battery and greatly extends battery life.

A variable battery buss accommodates 384V to 480V configurations, so the battery capacity can be matched to your exact runtime requirements—either a specific runtime, an extension to existing battery runtime, or legacy battery installations.

With remote monitoring of the UPS and battery system, Powerware is there with you—able to respond to alarms and real-time battery data to avert potential battery problems.

Industry-leading warranty and service plans deliver peace of mind

We are so confident about the performance and reliability of the Powerware 9390 UPS and battery system that we back it up with the industry's most extensive warranty and service plans. The Powerware 9390 UPS features a two-year limited

factory warranty (parts and labor)*. The Powerware 9390 also comes with a service protection package, which includes Start-Up service, a UPS Performance Check, two years of battery replacement labor coverage, and two years of web remote monitoring of both the UPS and batteries.

Beyond the warranty period, service plans are available to match any need—from basic UPS and/or battery support to all-inclusive packages with unique features, such as advanced remote monitoring with trending, customized UPS and battery capacity planning reports, and comprehensive power protection audits.



And of course, 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.

Scalable architecture meets your current and future load requirements

The Powerware 9390 UPS supports loads from 40 kVA to 160 kVA to deliver power protection for small branch offices to large corporate data centers and communication networks.

Up to four equivalent UPS modules can be paralleled for additional capacity or redundancy, without having to utilize a system parallel cabinet. Up to eight UPS modules can be paralleled by utilizing a tie cabinet. In all paralleling configurations, each UPS module operates independently yet is completely synchronized with the others. Parallel UPS modules can provide N+1, N+2, or greater redundancy.

Flexible installation options expedite deployment and save valuable space

The Powerware 9390 UPS offers the smallest footprint of any UPS in its class—35 to 50 percent smaller than competitive units. Cabling can enter the UPS from either the top or bottom of the cabinet to provide easier and flexible installation. The Powerware 9390 provides front panel access for all services and operation, increasing serviceability and reducing Mean Time to Repair (MTTR). And since the compact Powerware 9390 cabinet can be installed against back and side walls, you have more location options, installation is fast and easy, deployment cost is lower, and you save valuable data center space for future expansion.

Powerware delivers a new level of confidence

The culmination of 40 years of R&D excellence, the new Powerware 9390 UPS means confidence—confidence that your organization's critical systems are protected by the most reliable, efficient, and full-featured protection available, and confidence that Powerware will be there with you for the long term with premium warranty coverage and expert technical support.

To find out more about the new Powerware 9390 UPS, visit our website at www.powerware.com/9390, or contact us at 1-800-356-5794.



Two standard, embedded X-slots provide “plug-and-play” support for multiple communication cards. A total of four X-slots are available with the Mini-CSB option.

9390 Technical Specifications

UPS Rating (0.9 power factor)

kVA	40	80	120	160
kW	36	72	108	144

General Characteristics

Efficiency	94%
Parallel Capability	4x modules w/o tie cabinet; 8x with tie cabinet
Audible Noise	<65dBA @ 1 meter
Altitude (max)	2000m at 40°C

Input Characteristics

Voltage	208, 480, 600 ¹
Voltage Range	+10% / -15%
Rated Frequency	45-65 Hz
Power Factor	0.99 (min)
Input Current	<4.5% (no input filter required)
Inrush	6 times rated input current
Soft Start Capability	Yes
Internal Backfeed Protection	Yes

Output Characteristics

Voltage	208 ² , 480 ² , 600 ²
Regulation	+ / -1%
Inverter	PWM with IGBT Switching
Voltage THD	< 1.5% (100% linear load); < 5% (non-linear load)
Load Power Factor Range	0.9 lagging to 0.9 leading

Battery

Battery types	VRLA, AGM, Gel, Wet
Battery voltage	384 - 480, variable
Temperature Compensation	Optional
Charging method	Advanced Battery Management™ technology

Dimensions

40 - 80 kVA Modules	18.9"w x 31.6"d x 73.7"h
120 - 160 kVA Modules	35.6"w x 31.6"d x 73.7"h

40 & 80 kVA Modules	600 lbs
120 & 160 kVA Modules	950 lbs

User Benefits

Control Panel (LCD)	8 lines x 40 characters
Battery Start-up	Standard
Frequency Conversion	Standard
Remote Display Panel	Optional
Multi-language	Standard
Building Alarm Inputs	2 (galvanic isolate d)

Service

Internal Input Breaker	Standard
Back/Side Against Wall Installation	Standard

Accessories

System Parallel Cabinet	Optional
External Maintenance Bypass	Optional
Integrated Distribution Cabinet	Optional
Isolation Transformer	Optional

Certification

Safety	UL1778, CUL
EMC	FCC Class A
Surge	ANSI C62, 41 Cat. A&B

Remote Monitoring

Monthly report via RJ45 LAN/Ethernet connection	Standard
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Communications

Software Compatability	PowerVision®, LanSafe™, FORESEER®
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Communication Cards

Two X-Slots standard. Maximum of four X-slots with the Mini-CSB option. The following connectivity card options can be installed at any time:

- ConnectUPS Web/SNMP/xHub Card
- Modbus Card
- Relay Interface Card (Use for AS400's)
- Industrial Relay Card (5A@120V)
- Parallel Card provides CAN communications, isolated RS-484 port
- Environmental Monitoring Probe (EMP)^{*}

Remote Inputs/Outputs

Two building alarms inputs and one summary alarm contact (5A@120V) standard

Four more building alarm inputs available with the Mini-CSB option

Remote Monitor Panel

Eight backlit status indicator lamps plus an audible horn^{**}

- ^{*} Not an X-Slot card. Requires the ConnectUPS Web/SNMP/xHub card.
- ^{**} Requires the Parallel Card option (RS-485 port) and requires an external 120V power supply to drive the RMP.

¹600V applications require an input transformer. ²Output transformers are required if the desired output voltage is not the same as the input voltage. ³600V applications require an output transformer. ⁴Please refer to Integrated Distribution Cabinet brochure 9390IDC for more information.

^{*} See the Limited Factory Warranty for Powerware 9390 Products for details. Batteries are warranted by the battery manufacturer and not by Powerware. Due to continuing improvements, specifications are subject to change without notice. Powerware®, PowerVision®, FORESEER®, LanSafe™ and Advanced Battery Management™ are trademark(s) of Powerware Corporation.