

# Powerware 9390 160kVA

To Receive Detailed Quotation Call: 800-306-1125

Condition	Pre-Owned
Model	9390-160
Config Number	TD1612000033010
Phase	Three Phase
kVA / kW	160 / 144
Input Voltage	480VAC
Output Voltage	480/277VAC
Frequency (Hz)	60 Hz
Dimensions H x W x D	Inches 73.7" x 35.6" x 31.6"
Weight	950 lbs
Warranty	90 Day
Runtime Batteries	Available - Not Included
Price	20,000.00





(1) 1085 Battery Cabinet Included w/cables

Additional 1085 Cabinets w/cables – 3,000.00 ea. Batteries available upon request.

Data Sheet: http://unitedpowerups.com/documents/powerware/9390.pdf

# **Hardware Description:**

- Powerware 9390 160kVA
- Year 2005
- Empty Battery Cabinet
  - Cabinet can support a wide variety of runtime option.
- Batteries available upon request
- Startup available upon request
- 90 Day Electronics Warranty

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# Powerware 9390 UPS

40 kVA-160 kVA power protection for critical systems

## **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 threestage charging, battery healthchecks, optional temperaturecompensated charging, and remote monitoring
- Lowers installation time and costs with small footprint and the flexibility to install against walls, using topor bottom-entry cabling
- Provides a two-year, limited factory warranty\* on parts and labor, Startup service, two years of remote monitoring, on-site preventive maintenance, and optional service plans



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 unequaled 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 nonlinear 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 threestage 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 it's 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 "plugand-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 powe	r factor)
kVA 40	80 120 160
kW 36	72 108 144
General Characteristi	cs
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, 600¹
Voltage Range	+10% / -15%
Rated Frequency	45-65 Hz
Power Factor	0.99 (min)
Input Current	<4.5% (no input
Distortion	filter required)
Inrush	6 times rated input current
Soft Start Capability	Yes
Internal Backfeed	Yes
Protection	
Output Characteristic	is
Voltage	208², 480², 600³
Regulation	+ / -1%
Inverter	PWM with IGBT Switching
Voltage THD	< 1.5% (100% linear load);
	< 5% (non-linear load)
Load Power	0.9 lagging to 0.9 leading
Factor Range	
Battery	
Battery types	VRLA, AGM, Gel, Wet
Battery voltage	384 - 480, variable
Temperature	Optional
Compensation	
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 Module:	s 35.6'w x 31.6"d x 73.7"h
40 & 80 kVA Modules	600 lbs
120 & 160 kVA Module:	s 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
<b>Building Alarm Inputs</b>	2 (galvanic isolated)

Service	
Internal Input Breaker	Standard
Back/Side Against Wall	Standard
Installation	
Accessories	
System Parallel Cabinet	Optional
External Maintenance	Optional
Bypass	
Integrated Distribution	
Cabinet	Optional
Is olation Transformer	Optional
Certification	
Safety	UL1778, CUL
EMC	FCC Class A
Surge	ANSI C62, 41 Cat. A&B
Remote Monitoring	
Monthly report via RJ45	Standard
LAN/Ethernet connection	
Communications	
Software Compatability	

PowerVision®, LanSafe™, FORESEER®

### 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.

'600V applications require an input transformer. 'Output transformers are required if the desired output voltage is not the same as the input voltage. '600V applications require an output transformer. "Please 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.