

# Battery management for the Powerware 9390 UPS

Optimize battery runtime, lifetime, health, and performance

## Features

- ▶ Two years of remote monitoring of battery performance and alarms by Powerware experts to help you identify and avert potential problems
- ▶ Extended battery life through innovative three-stage charging and optional temperature-compensated charging
- ▶ Ability to configure battery runtime to meet exact requirements
- ▶ Service protection package provides you with added confidence.



When a utility power outage causes an uninterruptible power system (UPS) to switch to battery backup—even momentarily—you have to be sure those batteries are healthy, charged and up to the task. Improper management of batteries is the number one cause of downtime.

Powerware's battery configuration and management strategies help keep your batteries at peak performance. Provision exactly the battery capacity you need, monitor and manage batteries for optimum readiness, and gain the confidence of comprehensive battery maintenance and a service protection package.

### **Configure exactly the battery capacity you need**

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.

Battery cabinets are designed for “line-up-and-match” installations—shipped with interconnecting cables and instructions to install in tandem with the UPS. The result is a clean look that enhances the appearance of the data center while saving valuable space.

### **Monitor batteries for optimum readiness**

Advances in firmware and digital technology enable the Powerware 9390 UPS to offer sophisticated battery monitoring and management features that you might expect to find only on expensive add-on systems.

- ▶ **Battery runtime remaining monitor** uses system loading plus internal sensing points for voltage and current data to calculate runtime remaining.
- ▶ **Battery circuit test** performs a periodic pulse test of the battery string to ensure that there are no open circuits that would jeopardize battery performance and system availability.

In addition to these integrated monitoring features, Powerware offers two years of secure, remote monitoring, which provides 7x24 real-time monitoring of 100+ UPS and battery alarms. Real-time information is also critical in helping you make management decisions, from scheduling preventive maintenance to determining the best way to shed loads in an outage.

By ensuring optimal battery health and availability, battery monitoring features raise the reliability of the Powerware 9390 beyond any other UPS in its class.

#### **Extend battery life with innovative charging techniques**

Many UPS batteries on the market today are constantly 'trickle-charged'—a process that eventually degrades the battery's internal chemical composition, reducing potential battery service life by as much as 50 percent. In contrast, Powerware's Advanced Battery Management™ technology uses sensing circuitry and an innovative three-stage charging technique that extends the useful service life of UPS batteries while optimizing battery recharge time.

Optional temperature-compensated charging monitors temperatures and changes and adjusts the rate of charge to prolong battery life.

#### **Protect batteries with Powerware service and support**

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 include 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. Available on-site preventive maintenance by Powerware technicians ensures peak battery health, performance, and longevity.

Powerware also provides additional battery service plans that take the guesswork out of battery maintenance. Battery service plans provide parts-and-labor replacement coverage for partial and full battery strings beyond the Powerware 9390 service protection package.

#### **Gain a new level of confidence**

With sophisticated battery monitoring and management capabilities, coupled with an industry leading service protection package and technical support services, you can have confidence that your UPS batteries are being managed for maximum performance and lifetime, and are always ready for the critical role they play in your power protection architecture.

To find out more about battery management for the new Powerware 9390 UPS, visit our website at [www.powerware.com/9390](http://www.powerware.com/9390), or contact us at 1-800-356-5794.

\* See the Limited Factory Warranty for Powerware 9390 Products for details. Batteries are warranted by the battery manufacturer and not by Powerware. Powerware®, PowerVision®, FORESEER®, LanSafe™, and Advanced Battery Management™ are trademarks of Powerware Corporation. ©2004 Powerware Corporation.

#### **Powerware**

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Finland: 358.94.52.661  
France: 33.1.6012.7400  
Germany: 49.7841.666.0  
Italy: 39.02.66.04.05.40  
Norway: 47.23.03.65.50  
Sweden: 46.8.598.940.00  
United Kingdom: 44.1753.608.700

ASIA PACIFIC  
Australia/NZ: 61.2.9878.5000  
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