POWERWARE®
UNINTERRUPTIBLE POWER SYSTEMS

Benefits

- **Maximum Availability –** with true double conversion online design, the proven technology that is used for the most mission-critical applications in the world. It's unusual to find line-interactive, pseudo-online or any other kind of UPS, other than double conversion online, supporting 24/365 data centers, facilities, ISPs and major telecommunications installations.
- **Maximum Reliability –** with Powerware Hot Sync®, the award-winning, patented technology that achieves paralleling for redundancy and capacity (up to four modules) with no system-level single-point-of-failure. The preferred paralleling technology installed around the world with such major customers as E*Trade, Colo.com, and Citibank, Powerware Hot Sync will be available in the 10-40 kVA range with the Powerware 9330*.
- **Maximum Efficiency –** the Powerware 9330's advanced design features efficiency of up to 93%, the highest for a double conversion online UPS in this kVA range. No need to compromise reliability for efficiency with the Powerware 9330.
- **Maximum Performance –** the Powerware 9330 delivers the highest performance by using digital signal processing, true pulse-width-modulation and maximum IGBT responsiveness. This provides easy setup, drift-free operation and a pristine output.
- **Global Services –** Powerware service professionals provide round-the-clock monitoring, remote diagnostics, and on-site maintenance programs. More than just a material warranty, this is the most comprehensive service coverage available in the industry. Powerware Global Services provides you with peace of mind that potential downtime is prevented by proactive service and monitoring.

*Available late-2001

Powerware® 9330 Superior Cooling Design

Efficient and effective cooling of critical electronic components is key to designing a product that provides superior performance and reliability. The Powerware 9330's Superior Cooling Design is drawn from Powerware's almost 40 years of experience in designing high reliability UPS products. By using a constant, positive air flow this unique cooling system pulls cool ambient air in and pushes it through the UPS over the most sensitive and critical components, such as electronics and power switching elements, maintaining the lowest possible temperature at all times.

Other unrivaled design features are:

- **Redundant Fans** – To pull cool ambient air through the Powerware 9330 four redundant fans are located in the front of the unit. By locating the fans in front and pulling cool ambient air into the UPS, rather than locating fans in back or the top and exhausting hot air from the UPS cabinet, the fans run cooler and last longer. The 9330 can operate normally, providing double conversion on-line protection, with the loss of one fan without de-rating for load, temperature, or altitude and each fan can be replaced quickly while the unit remains on-line protecting the load. Fan redundancy also enhances availability and lowers MTTR.
- **Monitoring** – The Powerware 9330 logic control monitors each fan's tachometer for fan failure and controls the fan speed, which is adjusted according to load. (Adjustable fan speed increases the life of fans and lowers audible noise during low-load operation.) A failure of any of the redundant fans is immediately annunciated locally on the monitor panel and remotely through the communications port.
- **Filtering** – To prevent dust and other airborne contaminants from entering the unit a user replaceable air filter is located in the front of the Powerware 9330. The addition of this filter extends the life of the fans and other critical electronic components within the system.

Who Cares?

The Superior Cooling Design of the Powerware 9330 directly affects the overall reliability, availability and performance of the UPS system. For that reason decision makers and the actual user (many times one and the same) will be directly affected by the increased system reliability, availability and performance.

The Powerware 9330 is not tied to any specific industry or application, since in this 24/365 world applications run the gamut of verticals and channels.

Why is it important?

By keeping critical components at the coolest possible levels the Superior Cooling Design enhances the already untouchable performance of the Powerware 9330 by ensuring precise system operation and extending the life of critical system elements.

What are the major benefits?

- **Superior performance** – The cooling design of the Powerware 9330 ensures exceptional performance of the critical electronics and components because they are kept at the lowest possible temperatures.
- **Higher reliability** – Built-in component redundancy, monitoring and filtering combine to increase overall system reliability meaning higher MTBF.
- **Total system availability** – All combined, the Powerware 9330's Superior Cooling System increase overall system availability.

What is the Enterprise Advantage?

The Powerware 9330, like the Powerware 9315 before it, was designed as a cornerstone to providing UPS solutions with the highest reliability and availability to our customer's critical applications. By incorporating exclusive features like Superior Cooling, Battery Management System featuring DC Expert Plus™ Built-in Battery Monitoring, and Powerware Hot Sync, the Powerware 9330 sets a new standard by which acceptable solutions will be judged.

Invensys Powerware Division
8609 Six Forks Road
Raleigh, NC 27615 U.S.A.
Toll Free: 1.877.797.9273
or 919.872.3020
Fax: 1.800.753.9433
www.powerware.com

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Europe/Middle East/Africa
Finland: +358 9 452 661

Southeast Asia
Singapore: 65-8610377

China and North Asia
Hong Kong: 852.2745.6682

Japan
Shinagawa Tokyo: 813.3447.5251

Australia and South Pacific
Sydney, Australia: 612..9878.5000

Canada
Toronto, Ontario: 416.798.0112

Brazil
Sao Paulo, Brazil:
55.11.3933.8555/855.8500

Mexico
Col. Napoles C.P.,
Mexico 525.527.61.69/
525.488.33.33

invensys