

EAT•N

Powerware

Product Catalog

North America
September 2006



Eaton

Eaton Corporation is a diversified industrial manufacturer with 2005 sales of \$11.1 billion. Eaton is a global leader in electrical systems and components for power quality, distribution and control; fluid power systems and services for industrial, mobile and aircraft equipment; intelligent truck drivetrain systems for safety and fuel economy; and automotive engine air management systems, powertrain solutions and specialty controls for performance, fuel economy and safety. Eaton has 60,000 employees and sells products to customers in more than 125 countries. For more information, visit www.eaton.com.

Powerware® Solutions

Eaton offers a comprehensive selection of Powerware power management solutions to grow with your changing requirements in today's digital networking economy. From the desktop to the data center, we deliver a complete solution through our line of Powerware AC and DC power systems, connectivity options, software, and world-class service offerings. Whatever your application, Eaton is your one-stop partner for all your power protection needs.

It is our mission to provide you with the confidence that power problems will not disrupt your systems, data, and operation. This confidence is delivered through more than 40 years of solid performance, in-depth knowledge of customer applications, continuous innovations, and outstanding services. Our Powerware solutions have been recognized by end-users and industry experts for delivering the highest customer value and satisfaction, as well as for demonstrating insight into customer needs, among all UPS vendors.*

Powerware solutions are the global market share leader in medium- and large-range UPSs above 5 kVA, and second-leading in small system UPSs at and below 5000 VA.** Our loyal customers range from home office users to the blue-chip leading IT equipment providers, the largest global telecommunications companies, Fortune 100 businesses, and government agencies.

* Frost & Sullivan Award for Customer Value and Satisfaction and Frost & Sullivan Award for Product Line Strategy

** Based on Frost & Sullivan 2004 World UPS Market Report data



Powerware UPS Solution Overview

Selecting the Right UPS

Eaton's Powerware power management solutions are based on protecting the nine most common power problems present in any environment. This unique approach makes your product selection decisions about power protection much simpler. The nine power problems listed below are potentially harmful to both your data and your hardware. Powerware products offer three levels of power protection: Series 3, Series 5, and Series 9, plus the rugged Series Ferro which provides protection from eight potential problems particularly in harsh environments.. Based on the parameters defined by your application, you can select an uninterruptible power system (UPS) from the series that best matches your power protection needs. To provide maximum power protection, Eaton offers a full line of Powerware Series 9 UPSs with both single-phase and three-phase models in the Series 9 family.

Series 3

Basic Solution: Protection from three potential problems



Power Failure Power Sag Power Surge

The Powerware Series 3 UPS primarily protects against three of the nine power problems including power failures, power sags, and power surges. This essential, cost-effective protection is necessary in order to prevent damage such as data loss, file corruption, flickering lights, hardware damage, and equipment shutoff. For example, if the utility fails, you could lose all of your work-in-progress. The Series 3 UPS offers a degree of protection against the remaining power problems and is most commonly used to protect single workstations and point-of-sale (POS) equipment.

Series 5

Intermediate Solution: Protection from five potential problems



Power Failure Power Sag Power Surge Under-voltage Over-voltage

Powerware Series 5 UPSs are most effective against five power problems (power failures, power sags, power surges, under-voltage and over-voltage) and offer a degree of protection against other power problems. Some of the damages you risk by not using a Series 5 UPS include premature hardware failure, data loss and corruption, data error, keyboard lockup, storage loss, and system lockup. Series 5 UPSs are recommended for small network systems—all the way up to enterprise networking environments.

Series 9

Complete Solution: Protection from all nine potential problems



Power Failure Power Sag Power Surge Under-voltage Over-voltage Line Noise Frequency Variation Switching Transient Harmonic Distortion

Powerware Series 9 UPSs protect against all nine power problems: power failures, power sags, power surges, under-voltage, electrical line noise, over-voltage, frequency variation, switching transients, and harmonic distortion. Powerware Series 9 comprehensive protection minimizes the opportunity for component stress, burned circuit boards, data crashes and program failures. Series 9 UPSs offer the highest level of power protection available and are always recommended for mission-critical applications like server farms, hospitals, and Voice Over Internet Protocol (VOIP) applications.

Powerware

Single-phase UPS Products

Features

Eaton offers an extensive and innovative line of Powerware single-phase UPS solutions. The following are just a few features that enable us to provide you with the best power protection available.



Extended Battery Runtimes

Your application may require several hours of backup time and Powerware solutions can deliver it with Extended Battery Modules (EBMs) and other battery solutions. Featured on the following models: Powerware 5125, 9120, 9125, the 9140, 9155, 9170+, and FERRUPS®.

Load Segments

Using Powerware LanSafe® power management software, you can independently control load segments, which are groups of receptacles on the rear panel of the Powerware UPS. This feature, available on Powerware 5115RM, 5125, 9120, and 9125 models, enables you to manage scheduled shutdowns and sequential startups of protected loads. During a power outage, you can shut down power to non-critical devices, thereby extending battery backup time available for critical devices. Additionally, when the load segments of the Powerware 9125 are used in combination with Powerware ConnectUPS connectivity cards, users can remotely reboot locked-up network equipment. Simply link to the ConnectUPS connectivity card via the network and toggle the password-protected Load Segment Controller to get your network back online.



Load Segments

To preserve battery power for selected equipment connected to **Load Segment 1**, you can schedule **Load Segment 2** supporting less-critical equipment to shut down. As a result, less-critical devices do not drain battery power.

Triple Power Warranty

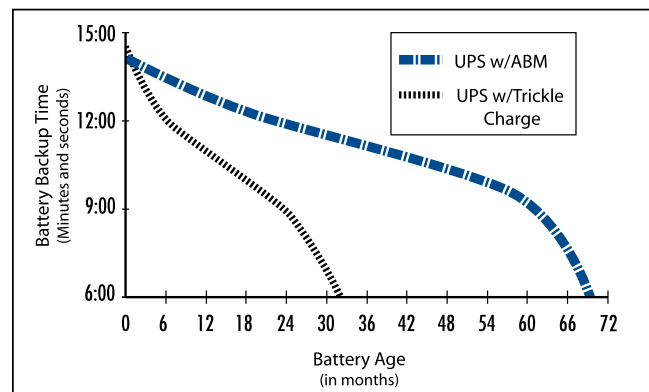
Not only does Eaton offer outstanding Powerware UPS products, we stand behind their performance with the Triple Power Warranty. Most single-phase UPSs include a standard two-year warranty and a load protection guarantee. In addition, by returning the warranty registration information card, you'll receive our exclusive prorated warranty, the longest in the industry. Featured on the following models: Powerware 3105, 5110, 5115RM, 5125, 9120, 9125, the 9140, 9155, 9170+, and FERRUPS.

Power Density

Powerware rackmount UPSs provide optimal, high-density power protection for critical loads—delivering more performance in smaller packages. Our space-saving models allow valuable rack space to be freed up for other essential equipment.

ABM® Technology

Most UPS manufacturers on the market today offer constant trickle-charge batteries. This process degrades the battery's internal chemical composition, reducing potential battery service life by as much as 50 percent. In contrast, Powerware ABM technology uses sophisticated sensing circuitry and an innovative three-stage charging technique that extends the useful service life of UPS batteries while optimizing the battery recharge time. It also provides advanced notice of the end of useful battery service life to allow you ample time to hot-swap batteries without ever having to shut down connected equipment. ABM technology is available on Powerware 5115, 5125, 9120, 9125, the NEW 9140, 9155, 9170+, and 9390.



Advanced Battery Management

Data based upon tests performed by an independent battery manufacturer.

Powerware

Single-phase UPS Products

Powerware Series 3

Single-phase UPS



Power Failure

Power Sag

Power Surge

Powerware 3105 350–700 VA

Features and Benefits

- Protect small office and home office equipment from power outages, surges, and sags
- Save space with a compact design that fits easily under a desk or can be conveniently wall-mounted, with quick access to all receptacles
- Protect loads on eight outlets—four with surge suppression and battery backups, four with surge suppression only
- Protect networked equipment from power surges coming through LAN or telephone lines
- Extend UPS service life with user-replaceable batteries
- Stay informed of power problems and low battery conditions with audible alarms
- Deliver short-term mobile power with start-on-battery capability
- Powerware LanSafe power management software included free-of-charge
- Optional multi-year Gold Plan service is available to provide repair and replacement coverage that goes beyond the provisions of the limited warranty



Typical Applications

- Small office, home office equipment
- POS systems
- PCs and peripherals

Powerware Series 5

Single-phase UPS



Power Failure

Power Sag

Power Surge

Under-voltage

Over-voltage

Powerware 5110 350–1500 VA

Features and Benefits

- Save space with a compact design that fits easily under a desk, mounted under a computer terminal, or on a computer shelf with quick access to all receptacles
- Protect loads on eight outlets—four with surge suppression and battery backup, four with surge suppression only
- Deliver consistent, clean output with automatic voltage regulation (AVR) that doesn't drain battery power
- Protect networked equipment from power surges coming through LAN or telephone lines
- Extend UPS service life with user-replaceable batteries
- Stay informed of power problems and battery conditions with audible alarms
- Deliver short-term mobile power with start-on-battery capability
- Powerware LanSafe power management software included free-of-charge
- Optional multi-year Gold Plan service is available to provide repair and replacement coverage that goes beyond the provisions of the limited warranty



Typical Applications

- Office workstations
- PBX or key phone systems
- Servers and network nodes
- POS systems
- Peripheral devices

Powerware

Single-phase UPS Products

Powerware Series 5

Single-phase UPS



Power Failure



Power Sag



Power Surge



Under-voltage



Over-voltage

Powerware 5115

500–1400 VA

Features and Benefits

- Extends battery service life and provides advanced warning of the end of useful battery life with ABM technology
- Delivers smooth, continuous power with pure sine wave output
- Regulates power fluctuations with Buck and Boost voltage regulation
- Protects equipment connected by network or phone wiring from power surges with a Network Transient Protector
- Minimizes downtime with hot-swappable batteries
- Communicates with Powerware LanSafe software via serial and USB ports
- Enhanced warranty coverage with optional Gold Plans



Typical Applications

- Workstations
- Small servers
- Hubs and routers
- Single and multiple PCs
- Small to medium business equipment

Powerware 5115 Rackmount

500–1500 VA

Features and Benefits

- Conserves valuable space with 1U rack height
- Extends battery service life and provides advanced warning of the end of useful battery life with ABM technology
- Delivers smooth, continuous power with pure sine wave output
- Protects your equipment from power fluctuations with Buck and Boost voltage regulation
- Includes mounting hardware for 1U and 0U rack and bench-top installations
- Integrates connectivity products, such as the Powerware ConnectUPS-X Web/SNMP Card, easily with an X-Slot®
- Enhanced warranty coverage with optional Gold Plans



Typical Applications

- Low profile rack servers
- Routers and hubs
- Wall-mount telecom key systems
- Rack or wall-mount VOIP equipment

Powerware

Single-phase UPS Products

Powerware 5125 1000–2200 VA

Features and Benefits

- Extends battery service life and provides advanced warning of the end of useful battery life with ABM technology
- Prolongs backup time with Extended Battery Modules
- Extends battery backup time for select devices with Load Segment control
- Delivers smooth, continuous power with pure sine wave output
- Protects your equipment from power fluctuations with Buck and Boost voltage regulation
- Integrates connectivity products, such as the Powerware ConnectUPS-X Web/SNMP Card, easily with an X-Slot
- Minimizes downtime with hot-swappable batteries
- Guarantees performance with the Triple Power Warranty
- Enhanced warranty coverage with optional Gold Plans



Typical Applications

- Multiple PCs
- Servers
- Workstations
- Switches and routers
- Blood analyzers

Powerware 5125 Tower and Rackmount 1000–6000 VA

Features and Benefits

- Conserves valuable space with 2U (1000–3000 VA) and 3U (5000–6000 VA) rack height
- Select units available bundled with factory-installed ConnectUPS-X Web/SNMP Card
- Extends battery service life and provides advanced warning of the end of useful battery life with ABM technology
- Prolongs backup time with 2U and 3U Extended Battery Modules
- Delivers smooth, continuous power with pure sine wave output
- Protects your equipment from power fluctuations with automatic voltage regulation
- Powers more of today's modern power supplies with high wattage output
- Virtually eliminates downtime with hot-swappable electronics and battery modules
- Integrates connectivity products, such as the Powerware ConnectUPS-X Web/SNMP Card, easily with an X-Slot
- Enhanced warranty coverage with optional Gold Plans



Typical Applications

- RAID
- Storage area networks
- Rack servers
- Switches, hubs, and routers
- Various rack equipment

Powerware

Single-phase UPS Products

Powerware Series 9

Single-phase UPS



Powerware 9120

700–3000 VA

Features and Benefits

- Isolates connected equipment from all incoming power problems to provide the highest degree of protection
- Extends battery service life and provides advanced warning of the end of useful battery life with ABM technology
- Conditions incoming power without depleting the battery
- Prolongs backup time with Extended Battery Modules
- Quickly collects information on UPS status, power usage, battery backup time, and other critical parameters with an intuitive LCD screen
- Easily incorporates connectivity products with an X-Slot to integrate into various environments and applications
- Extends backup time for select equipment with Load Segment control
- Protects equipment connected by network or phone wiring from “back door” power surges with a Network Transient Protector
- Enhanced warranty coverage with optional Gold Plans



Typical Applications

- Servers
- RAID
- Storage area networks
- Telephone PBXs

Powerware 9125 Tower and Rackmount

700–6000 VA

Features and Benefits

- Conserves valuable space with 2U rack height (700–3000 VA); and 5U rack height (5000–6000 VA)
- Isolates connected equipment from all incoming power problems to provide the highest degree of protection
- Extends battery service life and provides advanced warning of the end of useful battery life with ABM technology
- Preserves battery power through a wide input voltage range
- 5U models (5000–6000 VA) deliver maximum power density
- Increases backup time with 2U and 3U Extended Battery Modules
- Allows for specific outlet requirements with PowerPass® Distribution Modules (PPDMs)
- Extends backup time for select equipment with Load Segment control
- Integrates connectivity products, such as the Powerware ConnectUPS-X Web/SNMP/xHub Card, easily with an X-Slot
- Reduces downtime for maintenance with optional PPDMs
- Enhanced warranty coverage with optional Gold Plans



Typical Applications

- Rack servers
- Telecom PBX
- RAID
- Storage area networks
- Switches, hubs, and routers
- Various rack equipment

Powerware

Single-phase UPS Products

Powerware 9140

7.5–10 kVA

Features and Benefits

- Conserves valuable rack space with up to 10 kVA of power in only 6U of rack space, including internal batteries
- Upgradable from 7.5 kVA to 10 kVA, to meet increasing power requirements
- Offers up to 45 minutes of extended battery runtime at full load with 3U EBMs, using the same batteries as inside the UPS
- Module design allows one person, working alone, to replace a battery or power module without disrupting power to the load
- Provides investment protection with a two-year limited warranty, 10-year pro-rated warranty, \$250,000 load protection guarantee (US and Canada) and optional service plans
- Increases battery life through microprocessor-controlled ABM technology, resulting in more up-time and fewer battery replacements



Typical Applications

- Medium and high-density rack environments
- Server farms, especially blade servers
- LAN gateways
- Clustered PCs
- Enterprise telecommunications and engineering systems

Powerware 9155

8–15 kVA

Features and Benefits

- Provides more real wattage in less space with a 0.9 power factor—protecting more equipment and leaving more room for expansion
- Supports Powerware Hot Sync® technology for paralleling of multiple modules for redundancy or extra capacity
- Increases battery life through microprocessor-controlled ABM technology
- Reduces input current total harmonic distortion (THD) to less than five percent, using active input power factor correction
- Ensures data and system integrity with a complete power management software package for remote monitoring, management, and shutdown—over the network and the Internet
- Provides investment protection with a two-year limited warranty, 10-year pro-rated warranty, \$250,000 load protection guarantee (US and Canada), and optional service plans



Typical Applications

- Server farms
- LAN gateways
- Clustered PCs
- Enterprise telecommunications and engineering systems

Powerware 9170+

3–18 kVA

Features and Benefits

- Grows with changing IT environments by incorporating scalable design of 3 kVA power modules and batteries
- Eliminates single point-of-failure with N+X power and logic redundancy
- Isolates connected equipment from all incoming power problems to provide the highest degree of protection with online, double-conversion technology
- Extends battery service life and provides advanced warning of the end of useful battery life with ABM technology
- Conditions incoming power without depleting the battery
- Eases setup and service with hot-swappable, lightweight power and battery modules
- Easily incorporates connectivity products with an X-Slot
- Enhanced warranty coverage with optional Gold Plans



Typical Applications

- Mission-critical applications
- Enterprise telecommunication systems
- Server farms
- E-commerce networks
- Data centers
- Rack equipment

Powerware

Single-phase UPS Products

Powerware FERRUPS

Tower: 500 VA–18 kVA

**Rackmount:
850 VA–7 kVA**

Features and Benefits

- Delivers bulletproof protection with ferroresonant technology
- Converts power from almost any AC source into computer-grade power
- Prolongs backup time with external battery cabinets
- Conditions incoming power without depleting the battery to preserve battery power for complete power outages
- Adapts to virtually any application with customizable receptacles, input plugs, voltage matching transformers, and bypass switches
- Incorporates connectivity products to fit various environments and applications
- Enhanced warranty coverage with optional Gold Plans
- Saves money on installation costs by minimizing input breaker and wire size with low input THD and high power factor
- Galvanic isolation separates input from output, filtering line noise and surges
- Enhanced warranty coverage with optional Gold Plans



Typical Applications

- Telecommunications equipment
- Industrial process control equipment
- Midrange computing systems
- Data centers

Powerware Power Distribution Unit

Securing a comprehensive power management solution has never been simpler—or easier to accommodate. The Powerware Power Distribution Unit (PDU) was created to complement your UPS solution, managing power distribution in rack environments. The Powerware PDU is compatible with a variety of Powerware equipment and other manufacturer's equipment, and the installation process is quick and easy. With the Powerware PDU, it's never been a more convenient time to complete your total power management solution.

Features and Benefits

- Designed for a wide range of applications: 100–200V In/Out; 12–40A output current
- Up to 12 output receptacles in 1U of space
- NEMA and IEC output receptacles and input connections
- Units may be rack-mounted (0U or 1U), wall-mounted, or floor-mounted



**12-24A (100-120V);
12-24A, 32A (100-240V);
16-24A (200-240V)**

Typical Applications

- Server farms
- LAN gateways
- Clustered PCs
- Enterprise telecommunications, and engineering systems

Powerware

Three-phase UPS Products

Feature Focus

The rise of the Internet, telecommunications, and other digital technologies has driven greater dependence on both business-to-business and business-to-consumer technologies. Today's vast and complex digital infrastructure demands bulletproof protection from power disturbances. That's why customers put their confidence in Powerware solutions to protect their mission-critical applications.

Technical Innovation

Powerware solutions boast a long—and continuing—history of technical innovation. With more than 100 active patents for Powerware solutions, and over 80 patents pending, Eaton has a long tradition of leveraging its technical leadership to provide customers with what they need most in a power protection solution.

Following are several features that help differentiate Powerware three-phase UPS solutions:

- **Power Performance**

Today's high power factor load requirements and rising utility costs have placed a premium on power performance. Each Powerware three-phase UPS operates at a high efficiency to reduce utility costs, increase reliability and extend battery life. Features such as an optional intelligent input filter and innovative input circuit design keep input current

harmonic distortion (THD) low, resulting in maximum transfer of power between the power source and protected load, and enhancing total compatibility with upstream power sources. Output power factors as high as 0.9 easily accommodate high power factor load requirements and increase power density. Please see the Powerware 9315, 9355, and 9390 datasheets for each product's optional features and technical specifications.

- **Redundancy and Scalability**

Field-tested and installed in thousands of installations around the world, Powerware Hot Sync technology has become the global reliability standard. This technology enables a multi-module system configuration to operate in parallel without the need for inter-module communications, eliminating the system-level single-point-of-failure inherent in traditional parallel configurations and maximizing availability. Powerware Hot Sync technology can provide redundancy of N+1, N+2 or higher, and enable up to eight modules to be paralleled for capacity. This technology is available on the Powerware 9315, 9355, and 9390 models.

- **Battery Management**

Improper battery maintenance is the number one cause of load loss. Eaton's Powerware solutions feature innovative



battery management systems to take the guesswork out of battery maintenance. Available on almost all of the Powerware 9390s, ABM technology uses an innovative three-stage charging technique to optimize recharge time and significantly extend battery life. DC Expert® technology, featured on the Powerware 9315, helps avoid load losses caused by unexpected battery failure by continuously monitoring battery health and dynamically updating information on battery time remaining.

- **Double-Conversion Topology**

Powerware three-phase UPSs employ a double-conversion topology to completely isolate the protected load from utility power, providing the best level of power protection available.

World-Class Service

Powerware three-phase solutions are backed by a best-in-class services organization.

More than 300 North American field technicians and an \$8 million field inventory of spare parts help ensure each system's reliability and performance.

Our Customer Reliability Center provides 7x24 technical support, dispatch and remote monitoring of over 100 UPS and battery alarms. A wide variety of support plans and services, including on-site startup, corrective and preventive maintenance, and training provide added confidence and peace of mind.

Powerware

Three-phase UPS Products

Powerware 9315

200–750 kVA

The Powerware 9315 uses intelligent communication and parallel configurations to provide maximum uptime. In addition, the Powerware 9315 can be paralleled for both redundancy and capacity using patented Powerware Hot Sync technology.

Features and Benefits

- Provides flexible runtime options for your application
- Delivers maximum uptime for mission-critical systems by including our ProActive Service Plan for the first year following installation, including:
 - One year of 7x24 corrective maintenance
 - One year of 7x24 remote monitoring service
 - Annual performance check and Power Protection Audit
 - 7x24 technical support
- Isolates connected equipment from all incoming power problems to provide the highest degree of protection with online, double-conversion technology
- Maintains and monitors battery health continuously, dynamically updating information on battery time remaining
- Integrates seamlessly with generators by using an intelligent input filter



Typical Applications

- Data centers
- Facilities
- Security operations
- Enterprise networks
- Server farms
- Telecommunications installations
- Internet service providers
- Diagnostic imaging equipment
- Positron Emission Tomography (PET)
- HDTV station applications

Powerware 9355

10–30 kVA

If you manage a commercial facility or data center, you know it's a challenge to provide power protection for expanding loads in shrinking spaces. That's why Eaton developed the Powerware 9355 UPS, which delivers efficient, reliable performance in a sleek tower half the size of most competitive units on the market today—and makes power protection easier than ever to deploy, manage and modify.

Features and Benefits

- Protects connected equipment from all nine of the most common power problems with true online, double-conversion topology
- Delivers maximum power density in a compact tower design.
- The 10–15 kVA unit is only 12" wide and 33" inches deep, including batteries. The 20–30 kVA unit's footprint measures 20" wide and 34" deep, which also includes its batteries
- Provides more real power in less space with a 0.9 power factor—protecting more equipment for every utility dollar, and leaving more room for expansion
- Enables plug-and-play management of connected equipment. The 10–15 kVA unit even has a user-selectable choice of output receptacles from a variety of 18 types
- Delivers extra capacity or scalability and redundancy, for reliability, through patented Powerware Hot Sync paralleling of multiple modules
- Significantly increases battery life through microprocessor-controlled ABM technology
- Increases reliability and compatibility with generators by reducing total harmonic distortion (THD) to less than five percent
- Depending upon the individual unit, the Powerware 9355 provides from 13–20 minutes of battery runtime with internal batteries (at full load). It also supports up to three hours with optional external batteries
- Ensures data and system integrity with complete power management software for remote monitoring, management, and shutdown
- Provides excellent warranty, technical support, load protection guarantee, and optional service plans. All units come standard with a full year of complimentary e-Notify service



Typical Applications

- Mission-critical data centers
- Telecommunications central office or switch room
- Medical lab or medical imaging facility
- Security and building Management infrastructures
- Factory automation
- Process control
- High density data server environments

Powerware

Three-phase UPS Products

Powerware 9390 40–160 kVA

Built upon 40 years of power management experience, performance and continuous innovation, the Powerware 9390 combines extensive customer research with technical innovation to deliver the next-generation of power protection. The result is a UPS that provides the best combination of power performance, battery management, scalable architecture, flexibility, power density, warranty and service.

Features and Benefits

- Unmatched Power Performance
 - High efficiency of up to 94 percent reduces total cost of ownership by reducing cost of power to support protected loads
 - Low input current total harmonic distortion (THD) of less than 4.5 percent enhances compatibility with upstream power systems, especially generators
 - Input power factor of 0.99 minimizes auxiliary generator sizing requirements and provides more power to unity power factor servers
 - Output power rated at 0.9 power factor accommodates high power factor load requirements
 - Double-conversion design offers the highest protection possible
- Enhanced Scalability
 - Uses Powerware Hot Sync technology to parallel for capacity and redundancy
 - Up to four UPS modules can be paralleled with only a tie cabinet, while a total of eight modules can be paralleled (providing a total capacity of 1280 kVA)
- Best Total Battery Management
 - Extends battery life and optimizes battery recharge time via patented ABM technology
 - Integrated battery management system tests and monitors battery health
- Variable battery bus matches battery capacity to exact customer runtimes
- Remote monitoring of UPS and battery system standard
- Flexible Installation and Serviceability
 - Reduces installation time and costs with small footprint and flexibility to install against walls, using top- or bottom-entry cabling
 - Front-panel access for all services and operation increases serviceability and reduces repair time
- Highest Power Density
 - Power module footprint is 35–50 percent smaller than nearest competing unit
 - Delivers 72 kW in less than four square feet of space
- Superior Warranty and Service
 - Features a one-year limited factory warranty (parts and labor) with 7x24, 8 hour response for warranty repairs
 - Service protection package includes startup service, one year of battery replacement labor coverage,* and one year of Web remote monitoring of both the UPS and batteries
 - Optional service plans provide added confidence and peace of mind

* Eaton brand batteries include 3 year parts replacement plan (<200 with cell). All other batteries warranted by the battery manufacturer.



Typical Applications

- Data centers
- Medical facilities
- Diagnostic imaging equipment
- Enterprise networks
- Networking gear

Powerware

Three-phase UPS Products

Powerware BladeUPS Power System 12–60 kW

Eaton's new Powerware BladeUPS power quality system is a revolutionary solution that expands power protection from 12 kW to 60 kW (N+1) in a single industry-standard 19" rack. Equally important, Powerware BladeUPS provides this robust, compact solution while generating 75% less heat than the competitors' legacy "End of Row" solutions that are on the market today. Powerware BladeUPS can be configured for N+1 or higher redundancy. By simply plugging them in, Powerware BladeUPS modules can be redeployed, relocated or combined in parallel, creating a highly flexible power platform for any application.

Features and Benefits

- Achieves the highest power density in the marketplace
- Reduces operating expenses with more flexible, compact configuration options than the competitors legacy end-of-row solutions
- Requires only 6 rack units (U) per module
- Reduces single points of failure with an intelligent bypass design that eliminates human error
- Provides the ultimate in reliability through a 'peer-to-peer' paralleling relationship
- Increases system availability by not requiring any external controllers for paralleling
- Features hot-swappable battery modules and electronics
- Extends battery life and optimizes battery recharge time with Eaton's ABM technology
- Includes the patented Powerware Hot Sync paralleling, which enables scalability and reliability
- Utilizes off-the-shelf options, including line cord kits, communication cards (WEB/SNMP, ModBus, CAN, Contacts) Extended Battery Modules (EBMs), racks, sub-distribution and rack power strips
- Input configurations using industry standard plugs, for easy deployment



Typical Applications

- Blade server support
- Small, medium and large data centers
- Network closets
- VoIP equipment
- Networking applications: IPTV, Security
- Storage devices: RAID, SAN

New Powerware Enclosure

New Powerware Enclosure Solutions encompass a diverse range of cabinets and racks for network, telecom, and server applications. As the world-leader in power management solutions, Eaton can now deliver a truly complete data center solution from a single source.

Our Powerware Enclosure Solutions address the first critical step in planning an ideal data center. Eaton completes the comprehensive power quality solution with a full line of UPSs, PDUs, software and connectivity products, accessories, and world-class services.

Features and Benefits

- Highly functional and stylish, value packed and competitively priced
- Perforated doors exceed server air flow requirements
- Split rear doors minimize floor space requirements and provide ease of installation and maintenance
- Floating 19" rails provide more room for zero U cable management and PDU installations
- Z server rails offer additional mounting locations for PDUs and cable management
- Internal, welded frame with repetitive hold pattern delivers high load bearing capacity and additional mounting locations
- Internal door hinges offer a high level of cabinet security
- Door stiffeners offer mounting locations for fan trays
- Tool-free accessories improve ease of installation and reduce installation time and costs



Powerware

Three-phase Additional Products



PF2 Flywheels

PF2 Flywheel

The PF2, a battery-free DC energy storage technology, is an integrated motor-generator-flywheel that stores kinetic energy in a constantly spinning, quiet, low-friction steel disc. Compared to traditional battery systems, the PF2 dramatically reduces space requirements, temperature restrictions, replacement cycles, and maintenance cost while improving UPS reliability and operational integrity.



Static Transfer Switch

Maintenance Bypass Module (MBM)

Designed for use with the Powerware 9315 UPS family up to 500 kVA, this floor-mounted, enclosed line-up-and-match cabinet provides continuous support for critical loads during service or testing of the UPS module. The MBM includes 65 KAIC, 100 percent continuous current-rated maintenance isolation breaker, maintenance bypass breaker, bypass input breaker, electrical interlocking, and voltage conversion capabilities.

Static Transfer Switch (STS)

The Powerware STS is a high-speed switch that can transfer electrical loads from one AC power source to another in a fraction of a single electrical cycle. The Powerware STS eliminates the chance of a loss of power to critical loads by properly coordinating with the electrical distribution system. During a fault condition, the STS continues to conduct current, allowing downstream circuit breakers to work selectively.



Power Distribution Unit

Powerware Hot Tie Cabinet

Powerware Hot Tie cabinet is an ideal solution for two UPS modules powering two separate loads, allowing you to transfer the load of one unit to the other so that the loads are always protected. The Powerware Hot Tie cabinet has become more important than ever with the development of Powerware Hot Sync technology, as it enables two systems whose units are paralleled with Powerware Hot Sync, to work together for an even greater level of redundancy and protection.

Power Distribution Unit (PDU)

The Powerware PDM series can be easily expanded as power needs change by adding up to three side-cars. This expands the distribution capacity from 84 to up to 252 circuit breaker pole positions. Each Powerware PDU can be configured to meet your specific needs for isolation, voltage transformation, harmonic reduction and voltage regulation with virtually limitless distribution options. Built-in system monitoring and diagnostics facilitate load balancing and warn of potential threats to your critical equipment.



Remote Power Panel

Remote Power Panel (RPP)

The Powerware RPP allows for electrical expansion without the need for costly electrical rework. By simply feeding the RPP Distribution Module from the existing transformer or panel board, distribution capacity can be expanded by up to 168 pole positions.

Switchboard System Bypass Module (SSBM)

To enhance the reliability of redundant power systems, we offer the PowerHandler™ Plus SSBM. Designed specifically for the Powerware 9315 UPS family, the PowerHandler Plus allows up to eight UPSs to operate in parallel to provide more capacity than a single UPS, and as backup for each other. The parallel capacity/redundant system can supply up to 4,000 amperes, depending on the SSBM used.

Powerware

Other Power Protection Products



DC Power Systems

DC Power Systems

Eaton provides a range of Powerware DC power solutions to provide high-reliability and cost-effective 48V battery-backed DC power for your data network and telecommunications equipment. Eaton offers the industry's only custom-designed solution for providing long-duration backup 48V DC power to power-over-Ethernet devices compliant with the new IEEE standard 802.3af. All Powerware DC power systems are complete with pre-configured system controllers for easy system setup, and have options for remote control and monitoring via standard modem or TCP/IP communications. Just contact Eaton for expert advice on your 48V DC power requirements.



Metering

Meters

Power related problems undermine competitiveness and result in business interruption and equipment damage. Unless you have accurate PQ metering, you may not recognize problems until your profitability is in jeopardy ... by then it's too late. The smartest metering in the industry will help you make quick and confident power management decisions.



Protective Relay

Protective Relays

The financial consequences of downtime illustrate the significance of adding protection to the electrical system. Relays are engineered with protective features to enhance the reliability and uptime of any process. When a trip occurs, these devices capture the critical information necessary for speedy diagnosis and restoration of operations. Many times, trips can be avoided entirely because protective relays warn of impending trips and record information about possible causes, enabling corrective action before a disruption occurs. Our relays have been designed with safety in mind, protecting personnel from ground faults and unintentional trips.



Surge Protection

Surge protection

Power surges are among the most common power quality issues facing facilities today - resulting in safety concerns, equipment damage, costly downtime and decreased productivity. For effective surge protection, the IEEE also recommends a cascaded approach, applying surge protection at the service entrance, downstream panels, and point of use for critical loads. Surge protection systems are available to meet these application needs, including a full offering of dataline protection.



Power Factor Correction

Power Factor Correction

Every facility wants to reduce costs and gain that competitive edge. However, it's difficult when dealing with utility penalties, excessive equipment operation, and a high kVA demand. By installing power factor correction products, you can reduce total kVA demand, resulting in off-loading transformers, switchgear, and other equipment. The reduced total kVA demand translates in lower energy bills, cooler equipment operation, and longer equipment life.



Automatic Transfer Switch

Automatic Transfer Switch

In today's market, to be productive and meet demand, your facility needs to have reliable standby power. Automatic transfer switches offer continuous system monitoring and automatic transfer control for the fastest, most reliable, standby power system.

Powerware

Single- and Three-phase Software Products

Delivering a full line of Powerware software, strategic equipment, and connectivity devices, Eaton provides the perfect solution. Implementing these key components along with our UPS products allows you to get the most out of your power protection system.

Powerware Software Suite

Providing the highest level of availability to vital network equipment is a top priority. Because a variety of communication methods are used to monitor network equipment, realizing that goal requires thorough planning, careful design, and the right power management software. Arriving bundled with every Powerware UPS, the Software Suite CD incorporates user-friendly features including our Software Wizard to guide you through software selection and installation. The Software Suite includes Powerware LanSafe power management software and a 30-day trial version of PowerVision® software.



PowerVision Software

For Enterprise-wide Monitoring of UPSs and Mission Critical Equipment

PowerVision v4.0 software is the next generation of power management designed with a modular approach, offering the flexibility and scalability to adapt to the dynamic needs within the power protection infrastructure. PowerVision power management software is the solution for the progressive system administrator or facility engineer who needs local or enterprise-wide monitoring of multiple UPSs and/or other power components supporting mission-critical applications.



PowerVision software comes in two different packages, Network Edition and Facility Edition, and has additional options for enhancing the PowerVision software:

PowerVision Network Edition — monitors multiple Powerware and non-Powerware UPSs in a distributed power environment over your existing local area network (LAN).

PowerVision Facility Edition — is the industrial-strength solution for monitoring a wide range of UPSs, including multi-module synchronized parallel UPS configurations and other components of a centralized infrastructure.

PowerVision Data Acquisition Terminal (DAT) — designed specifically for the Facility Edition, the optional PowerVision DAT adds the ability to monitor non-UPS equipment and provides data for graphing and statistical over an Ethernet network.

PowerVision Enterprise Manager — serves a unique role as an optional enhancement to either edition by providing an enterprise-wide view that spans multiple PowerVision systems across your organization.

Features and Benefits

- Centralizes supervision of multiple UPSs and other equipment
- Sustains premium power performance through enterprise-wide monitoring and real-time alarm management
- Analyzes and predicts issues quickly with graphs and statistical reports with the Facility Edition
- Provides continuous equipment status with online and wireless alarm notification
- Graceful shutdowns protect critical data servers
- Streamlines asset management tasks for all UPSs on a network
- Uses standard SNMP traps to integrate your network management systems
- Automatically reminders for scheduled maintenance and battery replacement
- Provides advanced reporting, statistics, and graphs with the PowerVision Enterprise Manager

Powerware

Single- and Three-phase Software Products

LanSafe Software

Power Management Software for Network Shutdown

Running mission-critical applications and connecting widely-distributed nationwide and global operations are key strategic initiatives in today's business organizations. Powerware LanSafe power management software provides, in combination with a UPS, the best possible protection for this valuable data.

Features and Benefits

- Automatically performs a graceful shutdown of the computer system and saves work-in-progress during an extended power failure
- Runs invisibly with Stealth Mode Operation, which is particularly useful when integrating LanSafe software into a POS, ATM, or other environment where discretion is necessary
- Helps you determine how much money is saved from prevented downtime with a cost savings calculator
- Displays vital UPS information with an intuitive, graphic format for non-technical personnel
- Compiles a full year of UPS events with a graphical calendar view instead of text-intensive log files
- Communicates UPS status change messages via e-mail, pager, or cell phone to keep you informed at all times
- Remotely recycles power of hung-up hubs, routers, and computer systems with UPS power on/off capability



FORESEER® Software

Management Solution for Mission-Critical Infrastructure

FORESEER system software provides enterprise-wide monitoring and proactive management of the infrastructure supporting your critical operations

Features and Benefits

- Distributed, scalable architecture tailored to your organizational needs
- Dependable trend analysis and forecasting tools allow for proactive management and monitoring as well as performance reports
- Extensive, multi-vendor device-driven library interfaces so you can manage all your infrastructure equipment from a single system
- Customizable graphic user interface (GUI) accurately depicts individual sites, allowing for personalized views based on individual preferences
- Web browser access allows you and your staff to gain a remote, customizable view of critical facilities from anywhere in the world



Powerware

Single- and Three-phase Software Products

Powerware CoreLogic™ Software Development Toolkit

Software development tools for system integrators and software developers

A one-of-a-kind product in the industry, CoreLogic combines a suite of proven software utilities and components with an API-based driver library. The toolkit creates an easy, reliable, and flexible approach to integrating or embedding UPS management capabilities into customer or third-party software applications. Unique functionality and straightforward design equips developers and integrators to create applications more quickly and to lower development time and cost.



Features and Benefits

- Performs highly targeted power protection tasks, including status monitoring, control, discovery, and operating system shutdown
- API-based
- Can be customized to run as Microsoft® Windows® services or Linux® daemons
- Designed for easy integration with small code footprints
- Broad operating system support including Microsoft Windows, Linux, and Unix®
- Source code for batch scripts and utilities included
- Includes documentation, technical support and maintenance releases
- Enterprise and distribution licensing available
- Available online for purchase <http://www.powerware.com/software/corelogic.asp>
- Customizable graphic user interface (GUI) accurately depicts individual sites, allowing for personalized views based on individual preferences
- Web browser access allows you and your staff to gain a remote, customizable view of critical facilities from anywhere in the world

Powerware CELLWATCH Software

Advanced monitoring of your UPS batteries for their health and your peace for mind

Eaton understands just how critical your batteries are to your UPS. Temperature, float level, cycling, and other factors all degrade batteries to the point where they are unable to provide adequate backup time for your UPS or fail completely. Powerware CELLWATCH software provides the solution to ensure your batteries are continuously monitored and mission-critical systems are fully protected.



Features and Benefits

- Monitors voltage, internal resistance, and temperature
- Provides immediate warning and specific battery identification of deterioration and imminent failure
- Reduces the possibility of damage to an entire battery string
- Enables replacement based on battery condition, preventing expensive premature replacement
- Minimum 120 days of activity history enables you to trend individual battery and strings performance
- Initiates continuous monitoring during discharge, recharge, and float
- Remote monitoring capabilities optional
- Continuously monitors string and battery discharge currents ranging from 25A to 1000A
- Installation by trained battery technicians

Powerware

Single- and Three-phase Software Products

MultiView Software

Desktop Power Management and Network Monitoring Tool

Features and Benefits

- Allows user to view multiple HTML pages simultaneously within a single browser window
- Can detect and add the browser pages of connected ConnectUPS Web/SNMP Cards from Powerware UPSs, as well as the Status@aGlance page from Powerware's LanSafe v5 software
- Provides simultaneous monitoring of multiple Powerware ConnectUPS cards from a single console
- View status and configuration pages from any manufacturer's device that serves HTML pages



Powerware Extensions for Network Management Systems

Network Management System integration software

Powerware Extensions for Network Management Systems simplify UPS network management tasks by allowing you to monitor, diagnose, configure, set alarms, schedule self-tests, check battery, gather inventory information, and control Powerware UPSs network-wide from a single console within your network management system.

Features and Benefits

- Seamlessly integrates UPS devices into industry-leading Network Management Systems such as IBM® Director
- Enables remote management of multiple UPS devices in a network or server management environment
- Provides a central log for UPS inventory and events
- Manages Load Segment control (separate groups of receptacles on a single UPS) to extend battery backup times for selected devices
- Facilitates network-wide UPS battery testing, rebooting, and shutdown scheduling



Powerware

Single- and Three-phase Connectivity Products

Eaton's Powerware offering additionally includes connectivity products - accessory hardware options used to link Powerware UPS products to external communication devices. Eaton provides a variety of connectivity products to ensure communication compatibility with a variety of external devices through the Web, serial, USB, relays, or SNMP.

Powerware ConnectUPS Family of Ethernet Networking Products

Solutions for the changing global customer landscape

The Powerware ConnectUPS family of products provides seamless integration of Powerware UPS information into Network Management Systems using SNMP (Simple Network Management Protocol). These powerful and intelligent devices are designed for the rigorous task of managing the UPS devices that protect the critical equipment and, ultimately, the critical data residing throughout the network.

Features and Benefits

- Out-of-the box features coupled with the Powerware Software Suite provide users with all the necessary tools to monitor and manage the UPS supporting the critical IT environment
- Provides anytime, anywhere access by using any Powerware ConnectUPS Web/SNMP Card via network management software packages, such as HP OpenView® and via the Web using a computer, PDA, or cell phone
- Prevents unwanted access via the Internet from unauthorized personnel with built-in security at all levels
- Analyzes chronic power problems and determines trends through data logging and sophisticated graphing tools
- Adds three 10/100Mb network connections with no additional expense using a built-in three port switching hub (X-Slot Web/SNMP version)
- Speeds corrective action by delivering alarm notification through any combination of e-mail, SNMP traps, or NetWatch network message
- Integrated NetWatch software provides graceful, unattended shutdown of computer operating systems to preserve data integrity in the event of an extended power failure
- Powerware ConnectUPS MultiView software allows simultaneous monitoring of multiple Powerware ConnectUPS-X, -BD, and -E Cards
- SSL and SSH data encryption and authentication
- Automatic local language detection and support



Powerware Environmental Monitoring Probe UPS Connectivity Device

The Powerware Environmental Monitoring Probe (EMP) enables you to remotely monitor environmental conditions as easily as you monitor power conditions. Using a standard Web browser, you can view the ambient temperature and humidity of the remote environment, as well as the status of two additional contact devices, such as a smoke detector or open-door sensor.

Features and Benefits

- Monitors temperature, humidity, and status of two contacts/sensors
- Works with any Powerware UPS and ConnectUPS Web/SNMP Card
- Can be located up to 20 meters (65.6 feet) from the UPS
- Measures ambient temperatures between -20°C and 80°C
- Measures relative humidity between 10 and 90 percent
- Displays status on Web page, IP phone or PDA, or network management system
- Auto-sends alarms via e-mail, PCS phone, or pager
- Two-year limited warranty; option for enhanced warranty (US and Canada)



Powerware

Single- and Three-phase Connectivity Products

Multi-Server Card & Relay Interface Cards

Out-of-band communication and notification of UPS alarm status

The Multi-Server Card provides out-of-band serial communication with Powerware LanSafe software when Ethernet connectivity is not available or required. Load Segment control is mapped to specific serial ports on the card to provide selective control over critical loads. The Relay Interface Cards provide simple alarm notification via isolated contacts to signal remote annunciation panels or security systems in the event of a change of state in UPS operation.



Features and Benefits

Multi-Server Card

- Provides out-of-band communication methods via RS-232 serial communication or isolated Form-C relay contacts
 - Connects up to three servers for monitoring and graceful shutdown
 - Supports Load Segment control and RS-232 signals for low battery and AC Fail
- Is user-selectable for normally-open (NO) or normally-closed (NC) contacts
 - Enables remote shut down of the UPS
 - Comes equipped with DB-15 output connection and terminal block outputs on X-Slot model
 - Adapts to IBM iSeries® (AS/400®) applications with optional cables

Relay Interface Card

- Increases reliability and system availability
 - Provides isolated dry contact Form-C relay outputs for utility failure, low battery, UPS alarm/OK, and on bypass
- Works with the following Powerware UPS products: Powerware 5115RM, 5125, 9120, 9125, 9140, 9155, 9170+, 9315, and 9355.

Expansion Chassis & Modbus® Card

Increasing the flexibility and effectiveness of power protection systems

The Expansion Chassis is a three-slot peripheral device that expands communication methods for a UPS through its support for additional X-Slot cards. The Expansion Chassis is pre-configured with the Powerware Modbus Card, which serves as the interface to Modbus networks and as the integral communications controller for the remaining two slots.



Features and Benefits

- Creates a wide array of communication options for Powerware UPS products by acting as the framework for protocol conversion via compatible X-Slot cards for Modbus, SNMP, and HTTP
 - Adds expanded communication support for a wide range of UPSs: Powerware 5115RM, 5125, 9120, 9125, 9155, 9140, 9170+, 9315, and 9355
 - Offers flexible mounting options via included feet, rackmount, and wall-mount kits
 - Speeds corrective action by providing alarm notification through any combination of e-mail, SNMP traps, or NetWatch network messages
- Compatible with the following X-Slot cards:
 - Modbus (one included)– Connect to another Modbus network or monitor via Building Management System (BMS)
 - Powerware ConnectUPS-X SNMP/Web Card
 - Powerware ConnectUPS-MX SNMP Card
 - Single-Port Serial Card
 - Multi-Server Card

Eaton Services for Powerware Solutions

Delivering world-class services for all Powerware AC, DC, software, and connectivity products, Eaton is dedicated to providing comprehensive service solutions designed to improve costs, uptime, reliability, power quality, and safety. Our commitment to creating strong customer relationships is demonstrated through our technical expertise and expansive support services. With more than 300 customer service engineers (CSE) in North America and 1,200 international authorized service providers, we have more service personnel than any other UPS manufacturer. We are there when and where you need us by delivering 7x24 factory-certified service, including on-site startup, corrective and preventive maintenance, battery solutions, training, remote monitoring, and factory spare parts and upgrades. In addition to UPS services, Eaton also offers extensive engineering, product management, and integrated power systems solutions to bring about reliability, operating improvements, cost savings and asset optimization from your facility and your business.

Single-phase Powerware UPS Services

Eaton provides a full range of single-phase UPS service options, including service plans for both UPSs and batteries. Service plans enhance and extend the standard warranty by providing up to five years of bumper-to-bumper service from basic overnight replacement to comprehensive on-site system coverage including preventive maintenance. We can help you select an on-site or depot repair service plan that is right for you.

Three-phase Powerware UPS Services

Eaton ensures that your three-phase Powerware UPS continually provides reliability and performance. Our service plans are designed to provide you with system uptime, convenience, and value. We support the UPS, batteries, and related equipment with on-site service to meet your specific site or application needs.

DC Power, Software, and Multi-Vendor Services

We support all Powerware DC power systems, power system software, and related products with a variety of service plans. Regardless of manufacturer, a single contract will cover all of your AC and DC power system maintenance needs, and our 7x24 Customer Reliability Center will provide you with the convenience of a single point-of-contact.

Customer Reliability Center Services

With our remote monitoring services for mission-critical equipment, we provide the ultimate level of system reliability. From basic UPS and battery monitoring to your entire enterprise structure, our Instant Response Center continuously monitors power systems to detect power quality events and problems, perform predictive diagnostics, identify potential causes of power failures, take corrective actions, and deliver operational reports.

Proven Performance

Quality service can make the difference in success or failure. Our customers have consistently placed our services number one in quality:

- Eaton customers have rated our quality of service (QOS) at 95 percent or higher since 1999 (based on returned surveys of clients who used services for Powerware products)
- Over 97 percent of Eaton service contract customers (Powerware large systems) renew their service contracts each year
- Eaton invests hundreds of thousands of dollars each year in its 300 customer support engineers (CSE); in fact, each new CSE completes 24 weeks of training before becoming certified and placed in the field
- Our services for Powerware solutions feature the latest technology in scheduling, call management, parts optimization, and remote diagnostics to minimize Mean Time To Repair (MTTR)

Dedicated Team

Whether you have multiple sites or multiple vendors, Eaton is your total solutions provider, incorporating unsurpassed expertise in our services solutions. Reach our Crisis Response team day or night, 365 days a year, from anywhere in North America by contacting us at 1-800-498-2678. Or call us at 1-800-356-5737 from anywhere in the world and speak directly with our most experienced service consultants and technical support experts. Eaton stands behind every Powerware product with 7x24 service to ensure reliable power for your most demanding applications.

Service Contact Information

Customer Support Center

1.800.356.5737

North American Crisis Response

1.800.498-2678

- Small Powerware UPS and Battery Services
- Technical Support

Customer Reliability Center

1.800.843.9433

- Large Powerware UPS and

Battery Services

- Powerware DC Services
- Powerware Software Services

Looking for additional information?

Are you uncertain about the right product for your application? Are you wondering where you can buy Powerware products and would like to have a quote prepared for you? Perhaps you want to sign up to be a part of the Powerware Power Alliance reseller program? Your answers are only a toll-free phone call away from our team of sales specialists who can answer your questions. You can also visit our Web site for detailed product and program information or send us an e-mail.

1.800.356.5794 (US)

1.800.461.9166 (Canada)

www.powerware.com

info@powerware.com

UNITED STATES
8609 Six Forks Road
Raleigh, NC 27615 U.S.A.
Toll free: 1.800.356.5794
or 919.872.3020

www.powerware.com

CANADA
Ontario: 416.798.0112
Toll free: 1.800.461.9166

LATIN AMERICA
Argentina: 54.11.4343.6323
Brazil: 55.11.3616.8500
México: 52.55.5488.5252

EUROPE/MIDDLE EAST/AFRICA
Denmark: 45.3686.7910
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: 61.2.9693.9366
China: 86.21.6361.5599
HK/Korea/Taiwan: 852.2745.6682
India: 91.11.2649.9414 to 18
Singapore/SEA: 65.6829.8888

Powerware, CoreLogic, ABM, FERRUPS, FORESEER, PowerVision, PowerPass, DC Expert, LanSafe, ConnectUPS, PowerHandler, X-Slot, and Hot Sync are trade names, trademarks, and/or service marks of Eaton Electrical, Inc. All other trademarks are property of their respective companies.



Powerware

© 2006 Eaton Corporation
All Rights Reserved
Printed in USA
COR01FYA
September 2006