E·T·N | Powerware

Powerware® Single & Three Phase Software& Connectivity Solutions

Product Focus

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 Powerware Software Suite CD incorporates user-friendly features including our Software Wizard to guide you through software selection and installation. The Software Suite includes LanSafe network shutdown software and a 30-day trial version of PowerVision® software.

PowerVision Software
For Enterprise-wide Monitoring of UPS 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
· Analyses 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

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. 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
· Extensive, multi-vendor device-driven library interfaces so you can manage all your infrastructure equipment from a single system
· Customisable 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, customisable view of critical facilities from anywhere in the world

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 model 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
· Analyses 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 email, 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
· ConnectUPS-X works with the following Powerware UPS products: 5115RM, 5125A, 5125RM, 9125, 9155/9355, 9370 and 9390
· ConnectUPS-BD works with the following Powerware UPS products: 9120, 9170+
· ConnectUPS-E works with the following Powerware UPS products: 5115A, 9305
· SSL and SSH data encryption and authentication
· Automatic local language detection and support

Powerware Environmental Monitoring Probe UPS Connectivity

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 metres from the UPS
· Measures ambient temperatures between 0ºC and 80ºC
· 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 email, PCS phone, or pager

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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 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
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
·   Speeds corrective action by delivering alarm notification through any combination of email, SNMP traps, or NetWatch network message
·   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
·   Works with the following Powerware UPS products: Powerware 5115RM, 5125, 9120, 9125, 9155, 9170+ and 9315

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, 9170+ and 9315.
·   Offers flexible mounting options via included feet, rackmount, and wall-mount kits
·   Speeds corrective action by providing alarm notification through any combination of email, 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-M SNMP card
    -   Single-Port Serial Card
    -   Multi-Server Card

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