

POWERWARE SERIES

SINGLE-PHASE UPSs

500 VA–18 kVA

Eaton offers an extensive and innovative line of Powerware series single-phase UPS solutions with power ranges from 500 VA to 18 kVA. With industry-leading power protection in optimized form factors, Eaton offers a solution that fits your application. Here are just a few features that enable us to provide you with the best power protection available.

Power density

Eaton rackmount UPSs provide optimal, reliable power protection for critical loads—delivering more performance in smaller packages.



ABM technology

Eaton's exclusive 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.



Load segments

Maximize battery power and provide orderly shutdown and startup of critical equipment.

THREE-PHASE UPSs

10 kVA - 1100 kVA

Featuring an array of inventive features, Eaton's three-phase UPS solutions incorporate the design elements essential to protecting the most critical of applications. These groundbreaking solutions address current and future power protection requirements, featuring scalable architecture that grows with you to manage changing needs with the highest levels of efficiency and reliability.



Leading sustainability

- Highest efficiency ratings lower utility costs
- Lowest total cost of ownership and lifecycle carbon footprint
- Smallest footprint and weight
- Lowest transportation and installation costs

Stronger power performance

- Lowest input THD enhances compatibility with upstream power systems
- Lowest output THD
- Optimum generator sizing
- PFC power supply compatibility

Highest reliability and availability

- Powerware Hot Sync® wireless paralleling
- Easy capacity test
- Superior battery management
- Inherent redundancy
- Scalable architecture that adapts to increasing power requirements

Robust manageability

- Superior control and connectivity

DATA CENTER SOLUTIONS

Eaton's data center solutions are designed to help you save money, prevent downtime and use energy more efficiently. Our comprehensive portfolio includes enclosures, rackmount UPSs, enclosure-based power distribution units (ePDUs™) and a host of other power quality equipment.



To achieve high availability and reliability for environments with volatile demands, our flexible solutions:

- Incorporate a wide range of power ratings to support many types of applications.
- Free space for IT systems and allow room for growth with a very small footprint and weight
- Distribute power efficiently in high-density rack environments
- Monitor environmental conditions at the rack level
- Work in conjunction with Eaton's PowerChain Management solutions to provide visibility and control across the entire power chain—from the point where utility power enters your facility all the way to individual servers

SIGNATURE PRODUCTS

Eaton BladeUPS Power System (12–60 kW)

Eaton's revolutionary BladeUPS power quality system expands power protection from 12 kW to 60 kW (N+1) in a single industry-standard 19" rack. Equally important, BladeUPS provides this robust, compact solution while generating 75% less heat than the competitors' legacy end-of-row solutions.



Eaton ePDUs

Eaton's Enclosure Power Distribution Units distribute power from UPS systems to up to 24 or 45 receptacles in high-density rack environments. Eaton's robust line of ePDU offerings includes six different function types (basic, metered, monitored, managed and switched) and power levels in excess of 23,000 watts.



Eaton 9395 UPS

Our latest three-phase UPS innovation, the 9395 provides a high-end power quality solution for the largest data centers, mainframes, supercomputing equipment, large office buildings and applications requiring large, multi-module protection.



Eaton 9130 UPS

The new 9130 delivers more real power with a 0.9 power factor and offers a high efficiency mode, performing at a remarkable 95 percent efficiency or higher. This UPS delivers superior power protection for IT and networking environments, medical and manufacturing systems.



SOFTWARE

Power Xpert® Software

- Enables users to manage the complexities of large system deployments from a single desktop on one screen—from trending and analysis to alarm notifications
- Using only a browser, users can access this Web-enabled, open and time-synchronized software from anywhere in their network range
- Designed to communicate graphically with a broad range of devices, Power Xpert Software uses industry-standard protocols



LanSafe®

- Delivers comprehensive support including graceful, remote shutdown of UPSs and network monitoring tools via serial, USB and network connectivity options
- Helps users calculate money saved from prevented downtime with a cost savings calculator
- Runs in the background without visual traces using exclusive Stealth Mode Operation



NetWatch

NetWatch Client

- Monitors UPS activity in conjunction with a ConnectUPS Web/SNMP or BestLink Web/SNMP network card, or MGE Network Management Card
- Allows up to 255 clients to monitor the activity of a single UPS
- Alerts the server or workstation administrator whenever a power failure occurs
- Shuts down the operating system for monitored clients in preparation for AC power removal during an extended power failure

VISIT
www.eaton.com/powerquality

TO FIND YOUR PERFECT UPS

MGE OFFICE PROTECTION SYSTEMS SERIES

Eaton's MGE Office Protection Systems™ series secured power products and solutions are perfect for enterprises, small business and homes. This series has earned its strong reputation for quality, reliability and service.

Pulsar UPSs (300–3000 VA)

- Pulsar Ellipse delivers necessary power protection for personal and business computers
- Pulsar M offers ideal protection for servers, data storage, network and telephony equipment
- Pulsar MX provides a scalable, high-density, double conversion online solution



Evolution UPSs (650–3000 VA)

- Evolution provides high-density power protection for servers, storage systems and networking equipment
- Evolution S delivers high-density power protection for servers, storage systems and networking equipment with optimized form factors and extended runtime options



WHY EATON?

Electrical power is more than just a convenience; it's an essential element of doing business today. To deliver the competitive advantage our customers demand, Eaton® helps enterprises proactively measure and manage the power system as a strategic, integrated asset throughout its lifecycle. Eaton's PowerChain Management® solutions provide the power to make a difference, helping our customers achieve their business goals while maintaining environmentally sustainable enterprises as well. Tools such as energy audits and real-time monitoring of energy consumption enable customers to manage energy resources wisely.

Products such as Eaton's state-of-the-art UPSs, variable speed drives and lighting controls help conserve energy and increase efficiency. Eaton is committed to sustainable solutions—for our customers and for ourselves.

A one-stop partner, Eaton provides UPSs, DC power systems, award-winning power management software and world-class service offerings to render confidence that power problems will not disrupt your systems, data or critical operations.

EATON SERVICES

Eaton's comprehensive, world-class service solutions for our AC, DC, software and connectivity products are designed to improve costs, uptime, reliability, power quality and safety. We demonstrate our commitment to strong customer relationships through our technical expertise and expansive support services. With 240 customer service engineers (CSEs) in North America and 1,200 international authorized service providers, we have more service personnel than any other UPS manufacturer.

- Consistently ranked number one in quality
- Over 97 percent of Eaton service contract customers renew their contracts each year
- Experienced service consultants and technical experts available 24 hours a day, 7 days a week
- Services include onsite startup, corrective and preventive maintenance, battery solutions, training, remote monitoring and factory spare parts and upgrades

Learn more at www.powerware.com/upsservices

Premium Power Protection You Can Count On

Power through with Eaton.

EATON
Powering Business Worldwide

YouPowerThrough.com

Eaton offers a wide range of award-winning UPS products and services to provide complete power protection for data centers of all sizes. Our solutions are designed to isolate your valuable IT equipment from all nine of the most common power problems.

- **Power failure** A total loss of utility power. Can be caused by lightning strikes, downed power lines, grid over demands, accidents, etc.
- **Power sag** Short-term low voltage. Triggered by the startup of large loads, utility switching, utility equipment failure, lightning, and power service that is too small for the demand. Can cause system crashes and hardware damage.
- **Power surge** Also known as a spike. Short-term high voltage above 110% of nominal. Surges can be triggered by a rapid reduction in power loads, heavy equipment being turned off or by utility switching. The results can damage hardware.
- **Undervoltage** Also known as a brownout. Reduced line voltage for extended periods ranging from a few minutes to a few days. Can be caused by an intentional utility voltage reduction to conserve power or heavy loads that exceed supply capacity.
- **Overvoltage** Increased line voltage for extended periods ranging from a few minutes to a few days. Can be caused by a lightning strike. A spike almost always results in data loss and/or hardware damage.
- **Electrical line noise** High frequency waveform interference. Can be caused by either Line RFI or EMI interference generated by transmitters, welding devices, SCR-driven printers, and lightning.
- **Frequency variation** A change in frequency stability, resulting from generators or small co-generation sites being loaded and unloaded. Can cause erratic operation, data loss, system crashes, and equipment damage.
- **Switching transient** Instantaneous undervoltage (notch). Normal duration is shorter than a spike.
- **Harmonic distortion** Distortion of the normal waveform, caused by switch-mode power supplies, variable speed motors and drives, copiers and fax machines, and other non-linear loads. Can result in communication errors, overheating, and hardware damage.

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