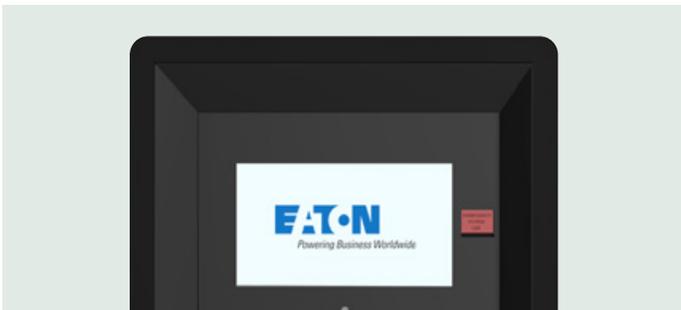




Eaton PowerPak Power Distribution Unit

The Eaton PowerPak® PDU protects your critical computer equipment from electrical noise and spikes and acts as a single point reference ground. Each PDU can be individually configured to meet your needs for isolation, voltage transformation, harmonic reduction and voltage regulation with virtually limitless distribution options. Standard DOE 2016 compliant transformers make Eaton PowerPak PDUs ultra energy efficient, reducing your long-term operating expenditures. Built-in system monitoring and diagnostics facilitate load balancing and warn of potential threats.

Every Eaton PowerPak PDU goes through the toughest testing in the industry. Eaton's comprehensive quality assurance program, with 100 percent unit inspection and testing, is just one way we assure each unit will perform flawlessly day after day.



Eaton PowerPak PDU touchscreen display



Intelligent WaveStar monitoring

WaveStar® monitoring with 7-inch color touch screen display gives you realtime control of actual loads down to the individual breaker level. This important decision making tool integrates Eaton's BCMS (Branch Circuit Monitoring System) so you control system-wide performance, breaker power levels, along with current and voltage data. This means improved, more timely decisions can be made based on real-time load and capacity data, all in one interactive and monitoring package.

Win the race for space

We designed our PDU to grow with your facility. "sidecars" can be added to the standard cabinet to give you up to six 42-circuit panels or combinations of panels and sub-feed breakers. Up to 252 separate circuits can be installed in a single unit. These circuits can be monitored by one of Eaton's BCMS systems as a factory installed component.

Redundancy increases system reliability

For utmost system reliability, choose one of our dual-input options. Eaton manufactures dual-input PowerPak PDUs with a full range of sensing and switching options to meet the speed and budget

requirements of a wide array of applications. Our manual dual and static switch primary and secondary PowerPak PDU systems help you create the most reliable power distribution system available — one that provides multiple power paths from normal and emergency electrical sources all the way to the point-of-use level.

Modular design

Eaton's modular design results in higher quality due to the standardized pre-testing of all modules, allowing us to meet the tight project deadlines that data centers demand.

Eaton service and support

After your equipment has been installed, call on Eaton's service team for 24/7 support. Our industry best sales and service team will stay with you from the design of your system through the life of your data center.

Other power distribution units

- **PowerHub:** 500–1,250 kVA with solid bus construction, see our separate PowerHub® brochure.
- **PowerPak 2:** 100–400 kVA with compartmentalization and true front access, see our separate PowerPak 2 brochure.



NEMA 1 enclosure

Specifications

Features

- Copper or aluminum wound construction
- Dual electrostatic shield—attenuates high frequency noise
- Oversized neutral conductor
- Common mode noise protection
- Transverse mode noise protection
- Accurate kW, power factor and THD measurement
- True RMS metering
- Operating efficiency: 98% typical
- Listed to UL 1950, CSA certified
- Modbus RTU communications
- BCMS available as factory installed option

Enclosure

- NEMA 1 enclosure with removable front side and rear panels
- Removable front, side and rear panels
- Integrated two-point latch and vision panels
- Flush-mounted door handle with integral locks
- Advanced door catch assures positive closure

Operating conditions

- **Operating temperature:** Ambient 0°C to 40°C per ANSI/IEEE C57.12.01—the temperature of the cooling air (ambient temperature) shall not exceed 40°C, and the average temperature of the cooling air for any 24-hour period shall not exceed 30°C
- **Storage temperature:** Ambient -10°C to +40°C (for storage temperature outside the standard range contact Eaton)
- **Altitude standard:** 3300 ft., max:10,000 ft. (For altitudes greater than 10,000 ft please contact Eaton)
- **50 Hz operating range:** 47–53 Hz
- **60 Hz operating range:** 57–63 Hz

Customization

Eaton offers the most comprehensive designs in the industry.

Let us help you create your own for your application.

PowerPak PDU options

Monitoring

Standard monitor: Eaton WaveStar monitor with 7-inch color touchscreen display (input and output monitoring)

Options: Dual transformer thermal switches

Communications: Serial RS-485 Modbus; optional SNMP communications

Thermal: Dual transformer thermal switches

Quad-Wye® technology

Solves harmonic problems by canceling the destructive triplen and nontriplen current harmonics.

Transient Suppression Network (TSN)

An integrated system engineered to meet ANSI/IEEE category C standards for transient voltages and surge currents.

Lightning arrestor/surge suppressor

Protects the insulation of the system magnetics.

Distribution panelboards/sub-feed breakers

Customized distribution configurations meet the demands of any facility.

Redundant power distribution systems

- **WaveStar manual dual**
Dual-input power distribution systems that allow for manual source selection to isolate upstream equipment and facilitate system maintenance and repair.
- **WaveStar primary and secondary static switch system**
Static switching, power conditioning and distribution system for transparent dual power source transfers. An integrated line up that offers primary, secondary and dual-cord configurations to help optimize your system solution. The Eaton static switch will sense and transfer between sources in 4 ms.

Transformers

DOE 2016 compliant transformers are standard on all models.

POWERPAK® POWER DISTRIBUTION UNIT SPECIFICATIONS

Ratings	Description
kVA ratings	75–300 kVA
Input	3-phase, 3-wire plus ground
Input voltage	@ 50 Hz: 415 or 380V, @ 60 Hz: 600, 480 or 208V
Output	3-phase, 4-wire plus ground
Output voltage	@ 50 Hz: 575, 415/240 or 380/220V, @ 60 Hz: 600, 575, 480 or 208/120V

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