



WaveStar PowerHub 2 Power Distribution Unit (PDU)

Eaton's PowerHub® PDU family provides power distribution for applications with 300 kVA and above. The new PowerHub 2 PDU, built on a modularized design platform, provides compact, robust and efficient solutions for power isolation, voltage transformation, harmonic reduction and voltage regulation with a wide range of distribution options.



WaveStar PowerHub 2 PDU



Eaton PowerPak PDU
touchscreen display

Modularized design platform

- Compact enclosure provides smallest footprint in the industry
- Compartmentalized electrical components provide easy and safe access
- Wide range of breaker options in one design to meet various needs

Robust and efficient performance

- Central welded bus built to provide reliable power distribution and front access
- TP-1 transformers standard and product UL listed
- Ultra high efficiency data center grade transformer for energy cost savings
- Optional 100 percent rated circuit electronic trip breakers for precision control

Intelligent WaveStar® monitoring

- Integrated billing-grade monitoring system for real-time control of actual loads down to the individual breaker level
- WaveStar color touch monitor provides intuitive local monitoring and seamless integrations over Modbus, SNMP or TCP/IP

Timely product delivery and support

- Short lead time to provide timely product delivery
- 24/7 service and support
- Sales and service support from system design throughout data center life

Other power distribution units

- **Rackmount Power Distribution Units**
- **PowerPak:** 750–300 kVA
- **PowerHub:** 300 kVA–1mVA
- **Medium Voltage/Power Distribution Units:** 4160V or 12470V system



Powering Business Worldwide

Technical specifications

Ratings

kVA rating, 300 kVA – 6250 kVA	
Input: 3-phase, 3-wire plus ground	
Input Voltage	@ 50 Hz: 380V – 415V @ 60 Hz: 600, 480 or 208
Output: 3-phase, 4-wire plus ground	
Output Voltage	@ 50 Hz: 575, 415/240, or 380/230V @ 60 Hz: 600, 575, 480, or 208/120V
200% neutral busbar connection	
Listed to UL 1062, UL 1950, CSA Certified	

Transformers

- TP-1 transformers are standard on all models.
- Operating Efficiency: 98% or better
- Copper wound construction – better conducting and more resilient than aluminum
- Dual electrostatic shield – attenuates high frequency noise
- Oversized 200% neutral conductor
- Common mode noise protection
- Transverse mode noise protection
- Optional Quad-Wye® Technology solves harmonic problems by canceling the destructive triplen and non-triplen current harmonics

Enclosure

- NEMA 1 enclosure with removable front, side, and rear panels
- Optional NEMA 3R enclosure
- 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
- Relative humidity: 0% to 95% non-condensing
- Altitude Standard: 3300 Ft., Max:10,000 ft.
(For altitudes greater than 10,000 Ft please contact EATON-PDI)
- 50 Hz Operating Range: 47–53 Hz
- 60 Hz Operating Range: 57–63 Hz
- Storage Temperature: ambient -10°C to +40°C

Monitoring

Monitor	WaveStar monitor WaveStar color touch monitor
Communications	Serial RS-485 Modbus RTU; optional SNMP or TCP/IP communications
BCMS	Available as factory-installed option
Options	Per circuit output monitoring
Thermal	Dual transformer thermal sensors
True RMS metering	
Accurate kW, power factor and THD measurement	

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 system

WaveStar Manual Dual System
Dual-Input power distribution system allows for manual sources election to isolate upstream equipment and facilitate system maintenance and repair.

Customization

Eaton is dedicated to providing customized solutions to meet the specific requirements of your application. Contact us at +1.804.737.9880 for further information and support.

Service and support

After your equipment has been installed, call on the Eaton service team, at 1.800.225.4838, for 24/7 support.