

SmartZone™ Network-Enabled MPO Series Rack PDU (for Aggregate and Per Outlet Power Monitoring)

specifications

Network-Enabled MPO (Monitored Per Outlet) Series Rack Power Distribution Units (PDUs) safely and efficiently manage and distribute power to installed equipment and are available in a range of electrical and outlet configurations that cover all global regions. Network-Enabled MPO Series Rack PDUs connect directly to the network to provide local and remote monitoring of aggregate and per outlet power data and environmental data. Power monitoring at the individual outlet level provides actionable management data on the power consumption of each connected IT device enabling the redeployment or decommissioning of individual servers to reclaim available or under-utilized power capacity. Network-Enabled MPO Series Rack PDUs integrate with comprehensive DCIM software platforms, to access current and historical trending information and event notification alarms. For more specialized applications, Panduit offers a custom made service which involves designing and manufacturing a rack PDU to meet exact customer specifications.



technical information

Dimensions:	32A or smaller vertical units: 70"H x 2.5"W x 2.36"D (1778mm x 64mm x 60mm) 50A or larger vertical units: 70"H x 3.25"W x 2.36"D (1778mm x 82mm x 60mm) Horizontal units: 1.73"H x 17.0"W x 8.84"D (44mm x 432mm x 225mm)
Packaging:	3-meter or 10 foot long power cord, screws, and tool-less button mounting
Mounting:	Vertical power strips provide multiple outlets and do not occupy any rack spaces Horizontal units mount via EIA 19" equipment mounting rails
Amperage ratings:	Global: 16 Amps NA: 30, 60 Amps

key features and benefits

Aggregate power monitoring	Performs real-time Rack PDU aggregate and per outlet monitoring at the individual device level
Per outlet monitoring	Per outlet monitoring provides data to determine if power distribution is accurate allowing for PUE calculation and individual servers to be identified as candidates for additional capacity, redeployment or decommissioning, improving overall data center efficiency; monitors current, voltage, kVA, kWhr, Power Factor, kW, and Frequency loads to monitor, document, and manage operational power utilization
Remote power monitoring	Allows users to remotely access, configure, or manage units, minimizing costly downtime and travel times to service equipment
Low profile breakers	Low profile circuit breakers reduce the PDU depth preventing obstruction within the back of the cabinet
Environmental monitoring	Includes two available ports for the connection of (optional) environmental sensors that monitor cabinet conditions such as temperature, humidity, and airflow to facilitate capacity management, and identify potential causes of equipment failure
Alarm thresholds	Enables users to define critical power or environmental thresholds that, if reached, will prompt alarm notifications for resolution to ensure operational resilience
LCD digital display	Displays a visible on-unit warning when the current draw of rack PDU is close to the maximum Amp draw levels, helping to quickly identify and resolve concerns and avoid risk of overloaded circuits
Integrated locking receptacle	Protects against vibration and external elements that can easily dislodge external locking clips or guides; works with any standard IEC power cord
Customizable configurations	Offers standard or customizable builds with single or three phase options, a range of current ratings, and different power outlets that can be adapted for varying power requirements
SmartZone™ Software integration	Captures actionable power and environmental data that can be utilized by SmartZone™ Software to enable data center operational and energy efficiencies, capacity management, and resilience

applications

The SmartZone™ Network-Enabled MPO Series Rack PDU safely and efficiently manages and distributes power to multiple rack or cabinet devices via a single power connector. It can be deployed and utilized as a standalone "intelligent" rack PDU.

The SmartZone™ Network-Enabled MPO Series Rack PDU is available for order as standard "off-the-shelf" units for most common requirements, or as customized build configurations that are designed and manufactured to meet exact product requirements.

The SmartZone™ Network-Enabled MPO Series Rack PDU offers a variety of horizontal and vertical mounting options that support simple flexible installations for Panduit® Net-Access™ and Net-SERV® Cabinets, or 2- and 4-post racks.

As part of an fully intelligent data center or DCIM solution, the SmartZone™ Network-Enabled MPO Series Rack PDU captures aggregate or per outlet Rack PDU power and environmental data that can be used by SmartZone™ Software to more effectively manage and optimize operational efficiencies.

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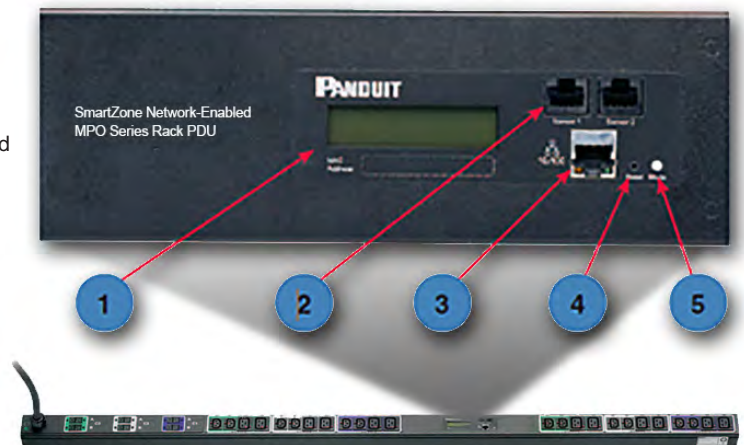
(for Aggregate and Per Outlet Power Monitoring)

test data

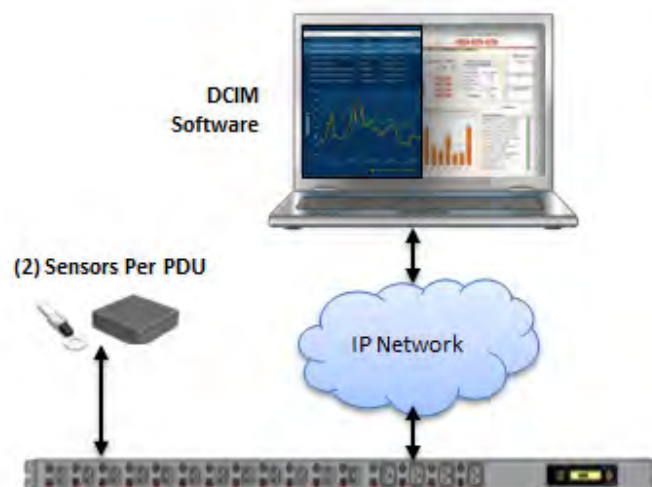
Parameter	Value
Mounting	Tool-less button style
Upgradability	Firmware upgradeable
Network Connection	RJ45 socket
Connectivity	10/100 MB Ethernet
Supported Protocols	HTTP, HTTPS, SNMP, NTP, SMTP
Operating Temperature	50°F to 104°F (10°C to 40°C)
Rated Voltage	120, 208, or 230/400 VAC (Three phase), 120, 208, or 230 VAC (Single phase)
Rated Current	Up to 63A AC Nominal
Rated Frequency	48 to 62Hz

local display features

1. **Local LCD Display** – Shows the firmware version number, device model number, serial number, MAC Address, IP Address, power and environmental sensor readings
2. **Remote Sensors** – Includes two RJ45 connector ports to monitor environmental conditions, and transmits SNMP-based or email alert notifications when conditions exceed defined thresholds
3. **Network Connection** – 10/100 MB Ethernet connection for remote power monitoring
4. **Reset** – Reboots the processor
5. **Mode** – Allows reset to defaults and changes the displayed information on the LCD



network-enabled rack PDU connection to the network



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part numbers

Item Number	Item Description
SmartZone™ Network-Enabled MPO Series Rack PDUs (Global)	
P1T1B3H0A08ATA0	16 A Single Phase Horizontal Rack PDU, 230V 6 IEC C-13 and 2 IEC C-19 locking receptacles, IEC 60309-6H 2P+E plug
Q1T1B3H0A24AFA0	16 A Three Phase Vertical Rack PDU, 230V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309-6H 2P+E plug
SmartZone™ Network-Enabled MPO Series Rack PDUs (NA)	
P1T2B1L2N08ATA0	30 A Single Phase Horizontal Rack PDU, 208V, 6 IEC C-13 and 2 IEC C-19 locking receptacles, NEMA L6-30P plug
Q1T2B2C3N24AFA0	60 A Single Phase Vertical Rack PDU, 208V, 12 IEC C-13 and 6 IEC C-19 receptacles, IEC 60309 -6H 2P+E plug
(Optional) SmartZone™ Sensors	
ZEAIR-02	Airflow Sensor
ZETHL-15	Humidity Sensor
ZEDIFFPRESS-01, 02, 03, 05	Differential Pressure Transducer
ZETHL-14	Temperature Sensor
ZEWS-03-03	Water Rope Sensor

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