

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

specifications

Network-Enabled MSPO (Monitored and Switched 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 MSPO Series Rack PDUs have remote switching capabilities, enabling individual outlets or a group of outlets to be switched on or off to reboot equipment or restrict unauthorized use of individual outlets. 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. The Rack PDU is connected directly to the network to provide local and remote monitoring of aggregate power, and environmental data, to quickly identify potential power issues and reclaim available or under-utilized power capacity. Network-Enabled MS 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: 32 Amps NA: 20, 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, kW, Frequency, and Power Factor loads to monitor, document, and manage operational power utilization
Remote power monitoring and switching controls	Allow users to remotely access, configure, or manage units; or manage individual or a group of outlets such as turning outlets off that are not in use (preventing overloads) or recycling power to locked-up equipment, 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
Time delay sequencing	Executes time delay sequencing of individual power outlets to avoid circuit overload due to the high inrush of current at equipment start up
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 MSPO 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 MSPO 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 MSPO 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 MSPO Series Rack PDU captures aggregate Rack PDU power and environmental data that can be used by SmartZone™ Software to more effectively manage and optimize operational efficiencies.

SmartZone™ Network-Enabled MSPO Series Rack PDU

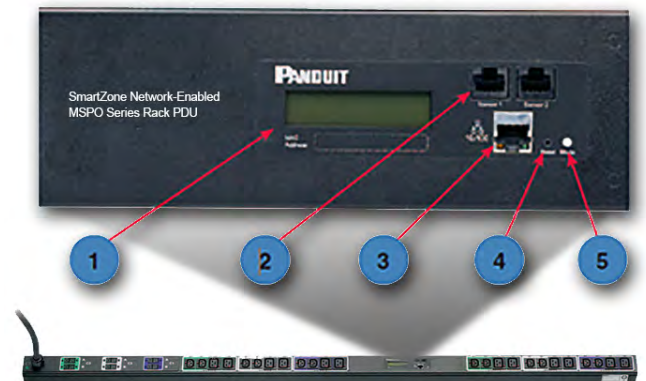
(for Aggregate and Per Outlet Power Monitoring with Switching)

test data

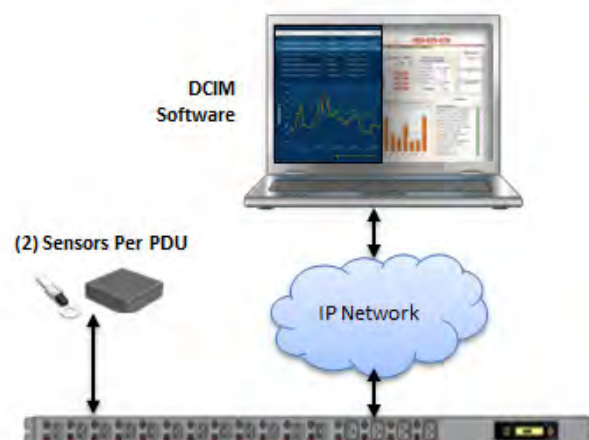
Parameter	Value
Mounting	Tool-less button style
Upgradability	Firmware upgradeable
Network Connection	RJ45 socket
Connectivity	10/100 MB Ethernet
Supported Protocols	HTTP, HTTPS, SNMP, NTP, SMTP
Operating Temperature	50°F to 104°F (10°C to 40°C)
Rated Voltage	120, 208, or 230/400 VAC (Three phase), 120, 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 temperature and humidity, 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 MSPO Series Rack PDUs (Global)	
Q1L2B2P6M24AQA0	32 A Three Phase Vertical Rack PDU, 230V/400V, 12 IEC C-13 and 12 IEC C-19 locking, IEC-60309-6H 3P+N+E plug
Q1L2B2P6M24AFA0	32 A Three Phase Vertical Rack PDU, 230V/400V, 18 IEC C-13 and 6 IEC C-19 locking, IEC-60309-6H 3P+N+E plug
Q1L2B3J2M24AFA0	32 A Single Phase Vertical Rack PDU, 230V, 18 IEC C-13 and 6 IEC C-19 locking, IEC-60309-6H 2P+E plug
SmartZone™ Network-Enabled MSPO Series Rack PDUs (NA)	
P1L2B1L2N16BQA0	30 A Single Phase, Horizontal Rack PDU, 208V, 12 IEC C-13 and 4 IEC C-19 locking receptacles, NEMA L6-30P plug
Q1L2B2W6N24AFA0	60 A Three Phase, Vertical Rack PDU, 208V, 12 IEC C-13 and 6 IEC C-19 locking receptacles, IEC-60309-9H 3P+E plug
Q1L2B1P3N24AFA0	30 A Three Phase Vertical Rack PDU, 208V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, NEMA L21-30P plug
Q1L1B1F0A24AFA0	20 A Single Phase Vertical Rack PDU, 208V, 18 IEC C-13 and 6 IEC C-19 receptacles, NEMA 6-20P plug
Q1L2B1L2N24AFA0	30 A Single Phase Vertical Rack PDU, 208V, 18 IEC C-13 and 6 IEC C-19 locking, NEMA L6-30P 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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