

# SmartZone™ Network-Enabled MS Series Rack PDU (for Aggregate Power Monitoring with Switching)

## specifications

Network-Enabled MS (Monitored and Switched) 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 MS 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. 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

<b>Dimensions:</b>	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)
<b>Packaging:</b>	3-meter or 10 foot long power cord, screws, and tool-less button mounting
<b>Mounting:</b>	Vertical power strips provide multiple outlets and do not occupy any rack spaces Horizontal units mount via EIA 19" equipment mounting rails
<b>Amperage Ratings:</b>	Global: 16 and 32 Amps NA: 50, and 60 Amps

## key features and benefits

<b>Aggregate power monitoring</b>	Performs real-time monitoring of aggregate rack PDU current, voltage, kVA, kWhr, Power Factor, kW, and Frequency loads to monitor, document, and manage operational power utilization
<b>Remote power monitoring and switching controls</b>	Allows 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
<b>Low profile breakers</b>	Low profile circuit breakers reduce the PDU depth, preventing obstruction within the back of the cabinet
<b>Time delay sequencing</b>	Executes time delay sequencing of individual power outlets to avoid circuit overload due to the high inrush of current at equipment start up
<b>Environmental monitoring</b>	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
<b>Alarm thresholds</b>	Enables users to define critical power or environmental thresholds that, if reached, will prompt alarm notifications for resolution to ensure operational resilience
<b>LCD digital display</b>	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
<b>Integrated locking receptacle</b>	Protects against vibration and external elements that can easily dislodge external locking clips or guides; works with any standard IEC power cord (See part descriptions for applicable Rack PDU models)
<b>Customizable configurations</b>	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
<b>SmartZone™ Software integration</b>	Captures actionable power and environmental data that can be utilized by SmartZone™ Software to enable datacenter operational and energy efficiencies, capacity management, and resilience

## applications

The SmartZone™ Network-Enabled MS 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 stand-alone "intelligent-ready" rack PDU.

The SmartZone™ Network-Enabled MS 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 MS 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 a fully intelligent data center or DCIM solution, the SmartZone™ Network-Enabled MS 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 MS Series Rack PDU

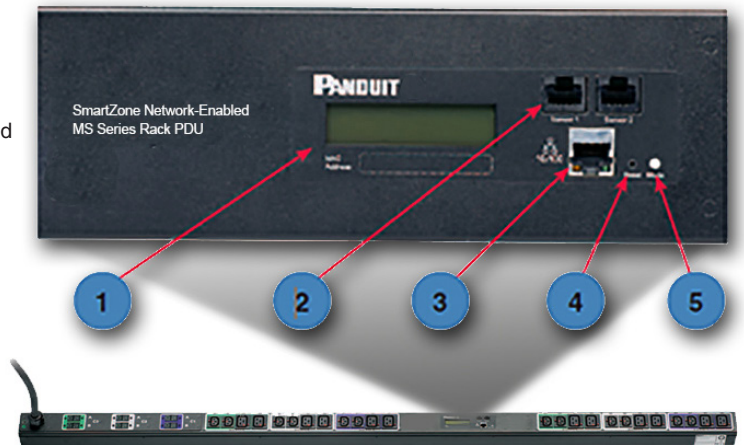
## (for Aggregate Power Monitoring with Switching)

### test data

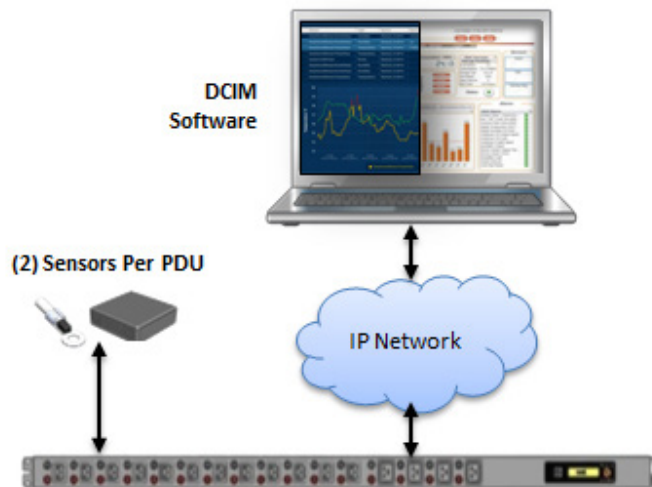
Parameter	Value
Mounting	Tool-less button style
Upgradability	Firmware upgradeable
Network Connection	RJ45 socket
Connectivity	10/100 MB Ethernet
Supported Protocols	HTTP, HTTPS, SNMP, NTP, SMTP
Operating Temperature	50°F to 104°F (10°C to 40°C)
Rated Voltage	120, 208, or 230/400 VAC (Three phase), 120, 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
<b>SmartZone™ Network-Enabled MS Series Rack PDUs (Global)</b>	
Q1S2B2Q0A24AFA0	16 A Three Phase Vertical Rack PDU, 230V/400V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC-60309-6H 3P+N+E plug
Q1S2B2P6M24AQA0	32 A Three Phase Vertical Rack PDU, 230V/400, 12 IEC C-13 and 12 IEC C-19 locking receptacles, IEC 60309 -6H 3P+N+E plug
Q1S2B2P6M24AFA0	32 A Three Phase Vertical Rack PDU, 230V/400, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309 -6H 3P+N+E plug
Q1S2B3J2M24AFA0	32 A Single Phase Vertical Rack PDU, 230V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309 -6H 2P+E plug
<b>SmartZone™ Network-Enabled MS Series Rack PDUs (NA)</b>	
Q1S2B2T6N24AFA0	50 A Three Phase Vertical Rack PDU, 208V, 12 IEC C-13 and 6 IEC C-19 locking receptacles, NEMA CS-8365c plug
Q1S2B2W6N24AFA0	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
Q1S2B2C3N24AFA0	60 A Single Phase Vertical Rack PDU, 208V, 12 IEC C-13 and 6 IEC C-19 receptacles, IEC 60309-6H 2P+E plug
<b>(Optional) SmartZone™ Sensors</b>	
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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