

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

## specifications

Gateway-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. Multiple rack PDUs can be connected to the network via a SmartZone™ Gateway to provide local and remote monitoring of aggregate power, environmental and physical access data from a single IP address, enabling potential issues to be identified and under-utilized power capacity reclaimed. Gateway-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. Gateway-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 2.50"W x 3.54"D (1778mm x 64mm x 90mm)<br>50A or larger Vertical units: 70"H x 3.25"W x 3.74"D (1778mm x 82mm x 95mm)<br>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<br>Horizontal units mount via EIA 19" equipment mounting rails  |
| <b>Amperage ratings:</b> | Global: 16, 20, and 32 Amps<br>US: 30, 50, and 60 Amps   |

## MS series rack PDU with gateway – features and benefits

### Rack PDU Features

|   |  |
|---|--|
| <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>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>Aggregate power monitoring</b>                     | Performs real-time monitoring and management of aggregate rack PDU current, voltage, kVA, kWhr, kW, Frequency, and Power Factor loads to monitor, document, and manage operational power utilization   |
| <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>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  |

### Gateway Features

|  |   |
|--|---|
| <b>Environmental monitoring</b>        | Monitors cabinet conditions such as temperature, humidity, and airflow to facilitate capacity management and identify potential causes of equipment failure   |
| <b>Single IP address</b>               | Multiple rack PDUs can be connected to the network via a SmartZone™ Gateway to provide local and remote monitoring of environmental and physical access data from a single IP address   |
| <b>Door access and control</b>         | Utilizes SmartZone™ serial keypads or card readers to support physical access security control of cabinet doors and prevent unauthorized access to racks or cabinets (connects via SmartZone™ Gateway EP064 and Gateway EPA126) |
| <b>Alarm thresholds</b>                | Provides user-defined critical power, environmental, and security thresholds that will prompt alarm notifications to enable resolution for maximum uptime   |
| <b>SmartZone™ Software integration</b> | 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                                     |

# SmartZone™ Gateway-Enabled MS Series Rack PDU

## (for Aggregate Power Monitoring with Switching)

### applications

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The SmartZone™ Gateway-Enabled MS Series Rack PDU safely and efficiently manages and distributes power to multiple rack or cabinet devices via a single power connector. The SmartZone™ Gateway-Enabled MS Series Rack PDU can be deployed and utilized as part of a gateway-based system that utilizes a SmartZone™ Gateway to maintain the active intelligence, with the resulting management of multiple rack PDUs from a single IP address via a web interface or SNMP.

SmartZone™ Gateway-Enabled MS Series Rack PDUs have remote switching capabilities, enabling 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. This prevents overloads or recycling power to locked-up equipment, minimizing costly downtime and travel times to service equipment.

SmartZone™ Gateway-Enabled MS Series Rack PDUs are 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.

Offered in a variety of horizontal and vertical mounting options that support simple flexible installations for Panduit® Net-Access™ 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.

### test data

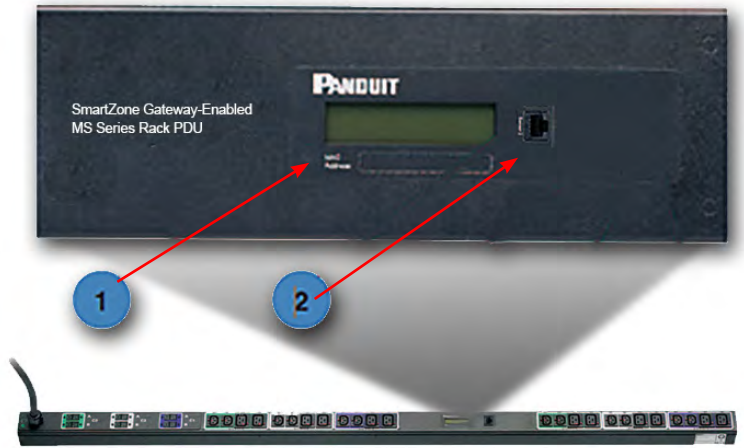
| Parameter             | Value   |
|-----------------------|---|
| Mounting              | Tool-less button style  |
| Upgradability         | Firmware upgradeable  |
| Gateway Connection    | RJ45 serial port  |
| Operating Temperature | 50°F to 104°F (10°C to 40°C)  |
| Rated Voltage         | 208V Single Phase or Three Phase Delta, 230V Single Phase, 230/400V Three Phase WYE |
| Rated Current         | Up to 60A AC Nominal  |
| Rated Frequency       | 48 to 62Hz  |

# SmartZone™ Gateway-Enabled MS Series Rack PDU

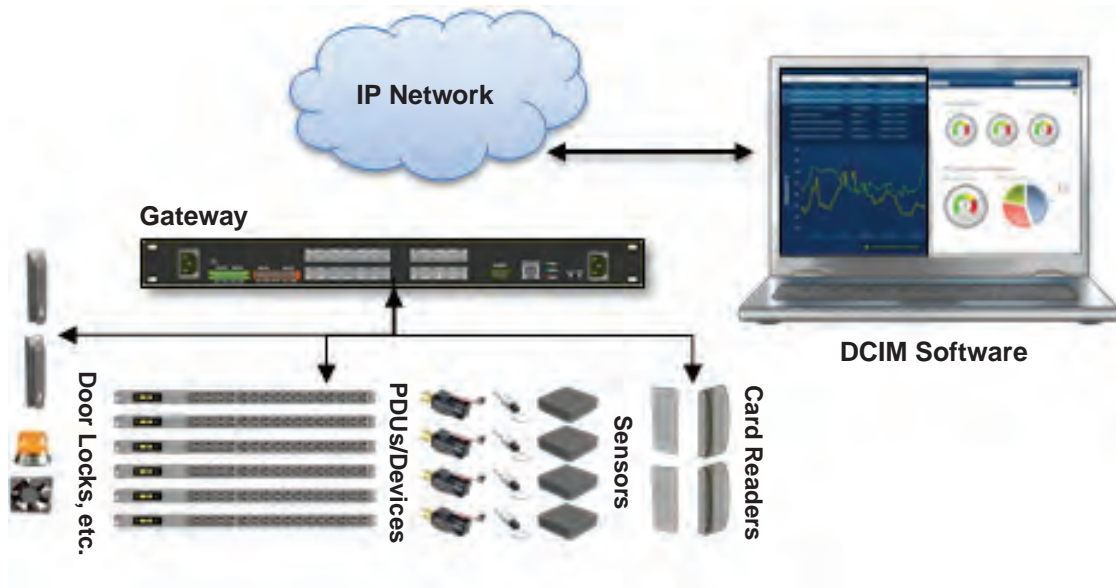
(for Aggregate Power Monitoring with Switching)

## local display features

1. **Local LCD Display** – Shows the firmware version number, serial number, and power readings
2. **Gateway Connection** – Includes RJ45 Serial Port for power monitoring via the local gateway



## gateway-enabled rack PDU connection to the gateway



# SmartZone™ Gateway-Enabled MS Series Rack PDU

## (for Aggregate Power Monitoring with Switching)

### part numbers

| Item Number | Item Description |
|-------------|------------------|
|-------------|------------------|

#### SmartZone™ Gateway-Enabled MS Series Rack PDUs

##### 16 Amp

|                    |  |
|--------------------|--|
| <b>GMS-A0282BL</b> | 16 Amp, single phase Wye, vertical rack PDU, 400V/230V, IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309 - 6H 3P+N+E RED, Splash proof |
|--------------------|--|

##### 32 Amp

|                    |  |
|--------------------|--|
| <b>GMS-A0279BL</b> | 32 Amp, three phase WYE, vertical rack PDU, 400V/230V, 12 IEC C-13 and 12 IEC C-19 locking receptacles, IEC 60309 - 6H 3P+N+E RED, Splash proof            |
| <b>GMS-A0281BL</b> | 32 Amp, single phase, vertical rack PDU, 230V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309 - 6H 2P+E BLUE, Breaker-16A, Splash proof         |
| <b>GMS-A0285BL</b> | 32 Amp, three phase Wye, vertical rack PDU, 400V/230V, 18 IEC C-13 and 6 IEC C-19 locking receptacles IEC 60309 - 6H 3P+N+E RED, Breaker 16A, Splash proof |

##### 50 Amp

|                    |   |
|--------------------|---|
| <b>GMS-A0284BL</b> | 50 Amp, three phase Delta, vertical rack PDU, 208V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, NEMA California Style (CS-8365C), Breaker-20A |
|--------------------|---|

##### 60 Amp

|                    |   |
|--------------------|---|
| <b>GMS-A0280BL</b> | 60 Amp, three-phase Delta, vertical rack PDU, 208V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309 - 9H 3P+E BLUE, Breaker-20A, Watertight |
| <b>GMS-A0283BL</b> | 60 Amp, single phase, vertical rack PDU, 208V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309 - 6H 2P+E BLUE, Breaker-20A, Watertight      |

#### (Optional) SmartZone™ Gateway-Enabled Sensors

|                       |   |
|-----------------------|---|
| <b>ZEAIR-02</b>       | Air flow sensor, uni-directional, 4m cable                                  |
| <b>ZETHL-13</b>       | External temperature sensor, 4m patch cable terminating in RJ45 socket      |
| <b>ZETHL-10</b>       | Humidity sensor, requires standard patch cable                              |
| <b>ZEPIR-04</b>       | PIR sensor, 4m patch cable terminating in RJ45 socket                       |
| <b>ZESMA05-01</b>     | Smoke detector, fixings supplied, 2m patch cable terminating in RJ45 socket |
| <b>ZEDIFFPRESS-01</b> | Pressure transducer (0 to 0.1), 2m patch cable terminating in RJ45 plug     |
| <b>ZEDIFFPRESS-02</b> | Pressure transducer (0 to 1.0), 2m patch cable terminating in RJ45 plug     |
| <b>ZEDIFFPRESS-04</b> | Pressure transducer (0 to 30), 2m patch cable terminating in RJ45 plug      |
| <b>ZEDIFFPRESS-03</b> | Pressure transducer (0 to 5.0), 2m patch cable terminating in RJ45 plug     |
| <b>ZETHL-14</b>       | Temperature sensor, 30cm cable terminating in RJ45 socket                   |
| <b>ZETHL-11</b>       | Temperature/humidity sensor, requires two standard patch cables             |

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