

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

specifications

Gateway-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. 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. 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. Gateway-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 2.50"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 US: 30, 60 Amps

MPO series rack PDU with gateway – features and benefits

Rack PDU Features

Per outlet power monitoring	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
Aggregate power monitoring	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
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
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

Gateway Features

Remote power monitoring	Allows users to remotely access, configure, or manage units, minimizing costly downtime, and travel times to service equipment
Environmental monitoring	Monitors cabinet conditions such as temperature, humidity, and airflow to facilitate capacity management and identify potential causes of equipment failure
Single IP address	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
Door access and control	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)
Alarm thresholds	Provides user-defined critical power, environmental, and security thresholds that will prompt alarm notifications to enable resolution for maximum uptime
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

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applications

The SmartZone™ Gateway-Enabled MPO 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 MPO 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.

Per outlet monitoring determines if power distribution is accurate and individual servers can be identified as candidates for additional capacity, redeployment, or decommissioning, improving overall data center efficiency.

SmartZone™ Gateway-Enabled MPO 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 an fully intelligent data center or DCIM solution, the SmartZone™ Gateway-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.

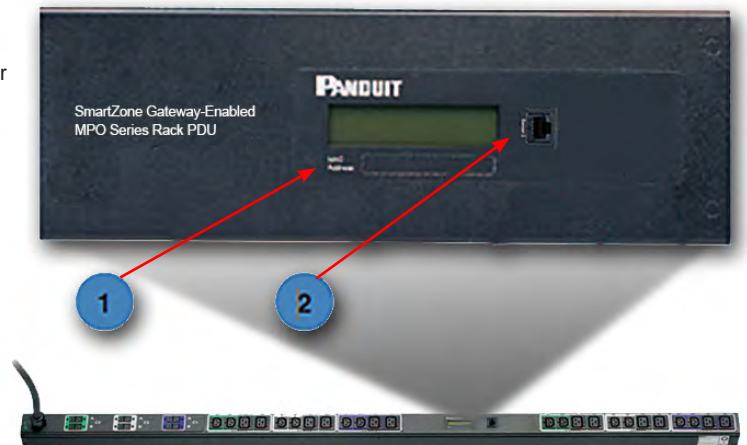
test data

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
Rated Current	Up to 60A AC Nominal
Rated Frequency	48 to 62Hz

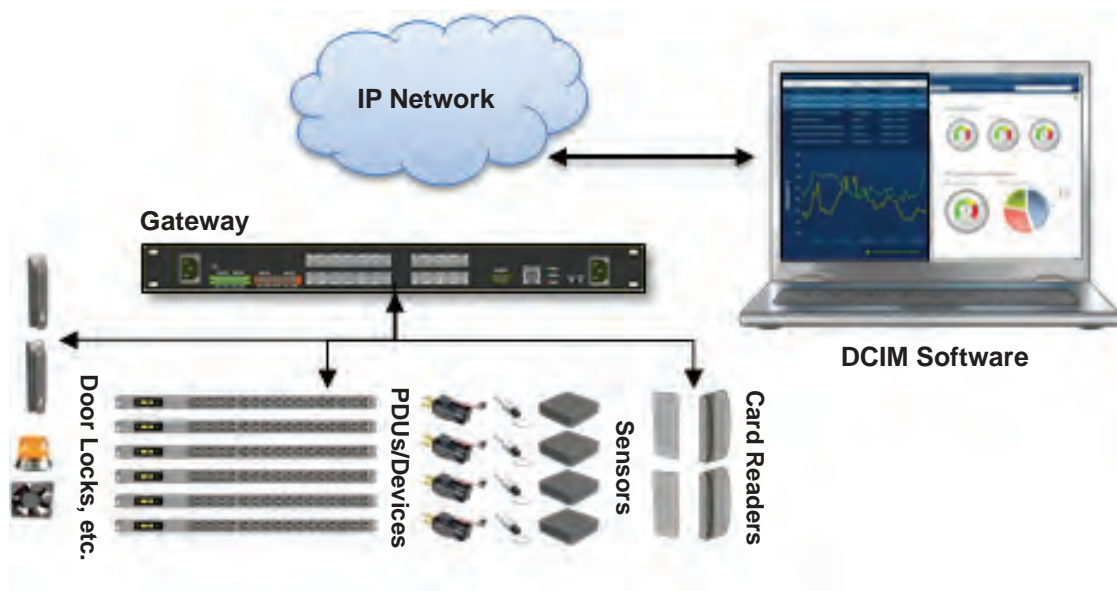
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local display features

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



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part numbers

Item Number	Item Description
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SmartZone™ Gateway-Enabled MPO Series Rack PDUs

16 Amp

GMPO-A0275BL	16 Amp, single phase, horizontal rack PDU, 230V, 6 IEC C-13 and 2 IEC C-19 locking receptacles, IEC 60309 - 6H 2P+E Blue, Splash proof
GMPO-A0278BL	16 Amp, single phase, vertical rack PDU, 230V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309 - 6H 2P+E BLUE, Splash proof

30 Amp

GMPO-A0276BL	30 Amp, single phase, horizontal rack PDU, 208V, 6 IEC C-13 and 2 IEC C-19 locking receptacles, NEMA L6-30P, Breaker-20A
GMPO-A0297BL	30 Amp, single phase, vertical rack PDU, 208V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, NEMA L6-30P, Twist lock
GMPO-A0298BL	30 Amp, three phase Delta, vertical rack PDU, 208V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, NEMA L15-30P, Twist lock

32 Amp

GMPO-A0295BL	32 Amp, three phase, vertical rack PDU, 230/400V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309 Splash proof
GMPO-A0299BL	32 Amp, single phase, vertical rack PDU, 230V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309 Splash proof

60 Amp

GMPO-A0277BL	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
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(Optional) SmartZone™ Gateway-Enabled Sensors

ZEAIR-02	Air flow sensor, uni-directional, 4m cable
ZETHL-13	External temperature sensor, 4m patch cable terminating in RJ45 socket
ZETHL-10	Humidity sensor, requires standard patch cable
ZEPIR-04	PIR sensor, 4m patch cable terminating in RJ45 socket
ZESMA05-01	Smoke detector, fixings supplied, 2m patch cable terminating in RJ45 socket
ZEDIFFPRESS-01	Pressure transducer (0 to 0.1), 2m patch cable terminating in RJ45 plug
ZEDIFFPRESS-02	Pressure transducer (0 to 1.0), 2m patch cable terminating in RJ45 plug
ZEDIFFPRESS-04	Pressure transducer (0 to 30), 2m patch cable terminating in RJ45 plug
ZEDIFFPRESS-03	Pressure transducer (0 to 5.0), 2m patch cable terminating in RJ45 plug
ZETHL-14	Temperature sensor, 30cm cable terminating in RJ45 socket
ZETHL-11	Temperature/humidity sensor, requires two standard patch cables
ZEWD3-05	Water sensor (contact type), 4m patch cable
ZEWS-03-03	Water sensor (rope type), rope length 5m, 4m patch cable

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