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

PANDUIT®

SPECIFICATION SHEET

specifications

Gateway-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. 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 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. Gateway-Enabled MSPO 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 rack PDUs provide multiple outlets and do not occupy any rack spaces Horizontal units mount via EIA 19" equipment mounting rails
Amperage ratings:	Global: 32 Amps US: 20, 30, and 60 Amps

MSPO 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
Remote power monitoring and switching controls	Allows remote access to enable individual outlets or a group of outlets to be switched on or off to reboot equipment or restrict unauthorized use of individual outlets
Time delay sequencing	Executes time delay sequencing of individual power outlets to avoid circuit overload due to the high in rush of current at equipment start up
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	
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 (applies to the 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

SmartZone™ Gateway-Enabled MSPO Series Rack PDU
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applications

The SmartZone™ Gateway-Enabled MSPO 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 MSPO 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 MSPO 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.

Per Outlet Monitoring determines if power distribution is accurate and individual servers to be identified as candidates for additional capacity, redeployment, or decommissioning, improving overall data center efficiency

Gateway-Enabled 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.

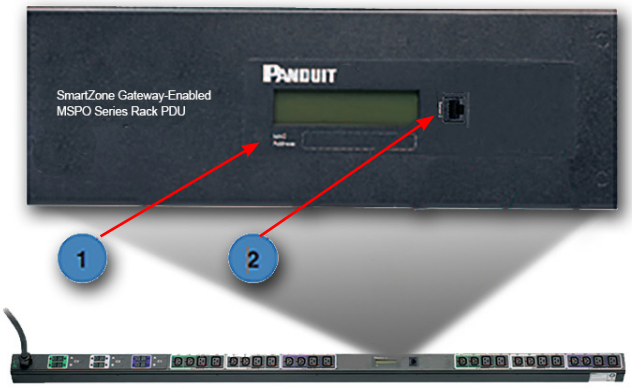
As part of a fully intelligent data center or DCIM solution, SmartZone™ Gateway-Enabled MSPO Series Rack PDUs capture rack PDU power and environmental data that can be used by SmartZone™ Software to more effectively manage and optimize operational efficiencies.

test data

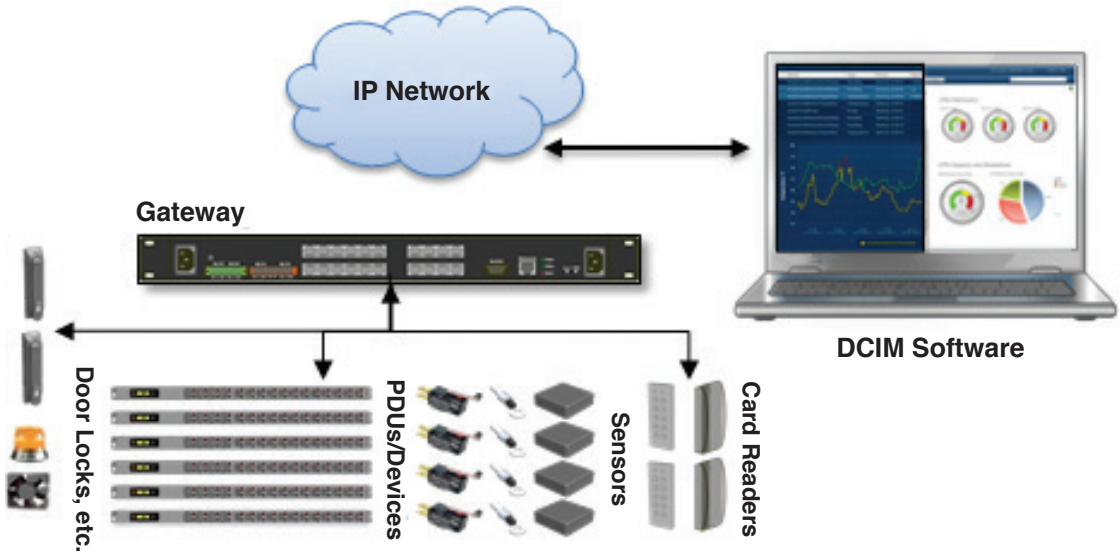
Parameter	Value
Mounting	Tool-less button style
Upgradability	Firmware upgradeable
Gateway Connection	RJ45 serial port
Operating Temperature	50°F to 104°F (10°C to 40°C)
Rated Voltage	208V Single Phase or Three Phase Delta, 230V Single Phase, 230/400V Three Phase WYE
Rated Current	Up to 60A AC Nominal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

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 MSPO Series Rack PDU
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part numbers

Item Number	Item Description
SmartZone™ Gateway-Enabled MSPO Series Rack PDUs	
20A	
GMSPO-A0292BL	20 Amp, single phase, vertical rack PDU, 208V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, NEMA L6-20P
30A	
GMSPO-A0289BL	30 Amp, three phase Wye, vertical rack PDU, 208V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, NEMA L21-30P, Breaker-20A
GMSPO-A0286BL	30 Amp, single phase, horizontal rack 12 IEC C-13 and 4 IEC C-19 locking receptacles, NEMA L6-30P, Breaker-20A
GMSPO-A0291BL	30 Amp, single phase, vertical rack PDU, 208V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, NEMA L6-30P, Breaker-20A
GMSPO-A0302BL	30 Amp, three phase Delta, vertical rack PDU, 208V, 18 IEC C-13 locking, 6 IEC C-19 locking and 1 C-13 locking always-on (breaker protected) receptacles, NEMA L15-30P, twist lock
32A	
GMSPO-A0287BL	32 Amp, three phase Wye, vertical rack PDU, 230V/400V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309 – 6H 3P+N+E RED, Breaker-16A, Splashproof
GMSPO-A0290BL	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, Splashproof
GMSPO-A0293BL	32 Amp, three phase Wye, vertical rack PDU, 230V/400V, 12 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309 – 6H 3P+N+E RED, Breaker-16A, Splashproof
60A	
GMSPO-A0288BL	60 Amp, three phase Delta, vertical rack PDU, 230V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309 – 9H 3P+E BLUE, Breaker-20A, Watertight
GMSPO-A0306BL	60 Amp, three phase Delta, vertical rack PDU, 208V, 12 IEC C-13 locking, 12 IEC C-19 locking, and 1 C-13 locking always-on (breaker protected) receptacles, IEC 60309, Splashproof
(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.
ZETHL-14	Temperature sensor, 30cm cable terminating in RJ45 socket.
ZEWD3-05	Water sensor (contact type), 4m patch cable.
ZEWS-03-03	Water sensor (rope type), rope length 5m, 4m patch cable.

**BL = Black, BU = Blue, RD = Red

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