Input Metered, Outlet Switched PDU Data Sheet – RackPower PDU

The RP2450 Input Metered, Outlet Switched PDU combines energy metering, power and environmental monitoring with remote outlet on/off switching to monitor, protect, and manage the rack environment. Utility grade metering at the phase input and internal circuit breaker levels provides comprehensive overload monitoring. Outlet power-up sequencing protects against inrush current overload and allows users to define equipment boot-up order and timing. While remote on/off control allows authorized users to power-cycle remote equipment and implement rack-level power access controls to power on/off each outlet. Advanced network management features allow for remote access and integration with accessories including environmental monitoring and security access solutions.

PDU Function	
Metering Attributes	Voltage(V), Current(A), Apparent Power(kVA), Real Power(kW), Power Factor, Energy (kWh)
Metering Accuracy	± 1% to ISO/IEC 62052-21
Metering Locations	Input phase level measurements
Remote Outlet Switching	Yes
Electrical Input	
Input Plug Type	Dual Rated IEC60309 516/520P6 (IP44)
Acceptable input voltage	200 – 240 / 346 – 415 VAC, 3 PH, WYE
Input current (phase)	16/20 A (16 A derated)
Input frequency	50/60 Hz
Max Input power	11.5/11.0 kVA
Electrical Output	
Output voltage	220 – 240 VAC
Maximum output current (phase)	16/20 A (16 A derated)
Overload protection (internal)	(0)„No Circuit Breaker,"temp stable, hy-mag type"
Outlet configuration	21 (C13/C15), 21 (4-in-1 Combo)
Physical	
Chassis Dimensions (L x W x D)	1490 × 56 × 75 mm (58.66 × 2.20 × 2.95 in)
Depth at circuit breaker	N/A
Input cord length	1.8 m (5.91')
Environmental	
Operating Temperature	-5 to 60°C (23 to 140°F)
Storage Temperature	-20 to 60°C (-4 to 140°F)
Humidity (operating/storage)	5-90% RH / 5-95% RH; non-condensing
Max operating elevation, above MSL	3,000 m (9,840 ft)
Compliance	
Safety & Environmental	IEC 62368 listed. RoHS, and REACH compliant. See drawing for additional information.

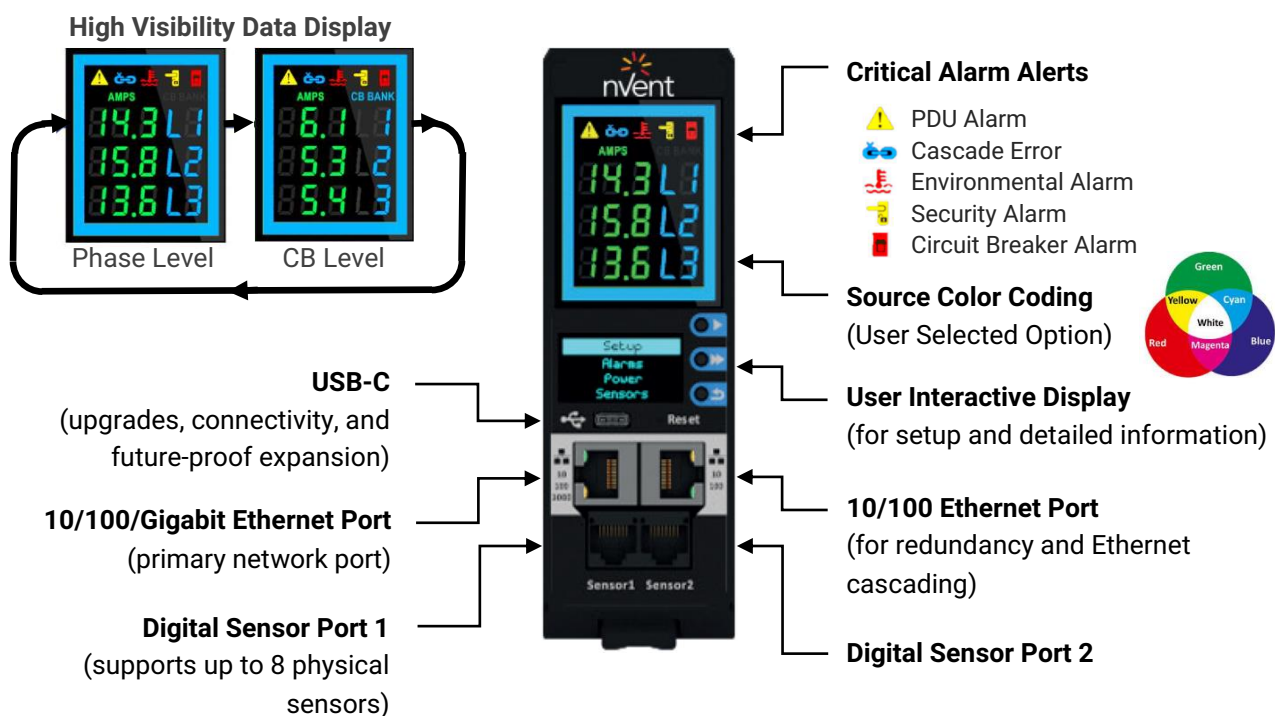## Advanced Network Management Module – RackPower PDU

Network Connectivity

Network Connectivity	Dual ports: 1x Gigabit Ethernet (10/100/1000 Mbps) and 1x (10/100 Mbps) connection/IP address
Ethernet Cascading	Up to 64 units share a single "daisy-chain" Ethernet connection/IP address
DC Power Sharing	Each PDU can provide DC power sufficient to power network management electronics
Dual Ethernet Support	Dual Ethernet ports for redundant network communications
Dual Network Access	Dual network connectivity allows redundancy and/or multiple stakeholder connectivity
Remote Connectivity	HTTP(s), iP4V and iPV6, SSH, Virtual Serial, SNMP (v1, v2c, v3), JSON-RPC, LDAP(S),
WebUI Interface	Data efficient REACT framework with native mobile device support

Management Module Attributes

Microprocessor/Memory	Cortex A-5
Field Replacement	Hot swap replaceable module; fast plug-and-play connectivity
Module Orientation	Tool-less removal and 180º install capable for top or bottom power cord orientation
User Display	Dual Displays: large high visibility LED display for key metering information and alarms. Low-power graphical oLED with user controls for local information.
Display Language	English, Spanish, German, French, Italian, Korean, Japanese, Chinese (simplified)
Lighted Color Code	User programmable color border allows power source identification by PDU
Sensor & Supports	Supports up to 8 digital sensors for environmental sensors and/or electronic locks

High Visibility Data Display

Phase Level

CB Level

Critical Alarm Alerts

- PDU Alarm
- Cascade Error
- Environmental Alarm
- Security Alarm
- Circuit Breaker Alarm

Source Color Coding
(User Selected Option)

User Interactive Display
(for setup and detailed information)

10/100 Ethernet Port
(for redundancy and Ethernet cascading)

Digital Sensor Port 2

USB-C
(upgrades, connectivity, and future-proof expansion)

10/100/Gigabit Ethernet Port
(primary network port)

Digital Sensor Port 1
(supports up to 8 physical sensors)

Environmental Sensors and Security Access Control

EA9102	Single Temperature Probe
EA9103	Temperature and Humidity Combo Sensor
EA9105	3x Temperature and Humidity Combo Sensor
EA9106	Sensor Input Hub (3 sensors input to PDU)
EA9109	Magnetic Door Switch (open/close)
EA9110	Dry Contact Cable (for third party sensors)
EA9111	Spot Fluid Leak Sensor
EA9112	Rope Fluid Leak Sensor
EA9116	Smoke Alarm Sensor
EA9500	Security Access eHandle supports physical key entry + Electronics access + RFID card reader + Keypad
EA9502	Security Access eHandle supports physical key entry + Electronics access + RFID card reader
EN9550	eHandle Sensor, Temperature and Door Contact Combo Sensor
EN9551	eHandle Sensor, 3x Temperature and Door Contact Combo Sensor

Warranty and Terms

Warranty : nVent warranties RackPower brand equipment provided shall be free from manufacturing defects for a period of five (5) years from the invoice date to the original purchaser. For full warranty details, please visit https://enlogic.com/warranty.

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