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Netshield Managed Smart Metering PDU's



Description:

Netshield Web and SNMP Smart managed Zero U PDU's are designed for quick and simple installation. The units are cost efficient and have reliable high volume power distribution. The units have extended outlet configurations and mounting options to accommodate for high-density data center cabinets.

They are designed for optimal performance in Netshield cabinets/racks but will actively function in most third party cabinets. The units can be installed vertically on either side in the rear the cabinet depending on the cabinet configuration.

Netshield Smart PDU's provide active Class 1 metering to enable energy optimization and circuit protection. User-defined alarm thresholds mitigate risk with real-time remote alerts to warn of potential circuit overloads. Netshield Smart PDU's provide power utilization data to allow informed decisions on load balancing and right sizing IT environments.

Netshield Smart PDU's include real power monitoring with RS485 and 1-wire temperature, humidity and flooding sensor expansion port.

Netshield Smart PDU's can be accessed and configured through a Web interface or SNMP and managed by Netshield Centralized Management systems.

Typical Web Interface Dashboard:


Power Distribution Unit

192.168.1.178

Power Meter Probes POD Probes

Power Meter Modbus Probe 1

Status:	Present
PDU Output:	ON
Voltage:	230.300003 V
Current:	1.269000 A
Active Power:	292.799988 W
Apparent Power:	292.825653 VA
Reactive Power:	0.000000 VAr
Power Factor:	0.999977
Frequency:	49.950001 Hz
Import Active Energy:	1.169000 kWh
Export Active Energy:	0.000000 kWh
Import Reactive Energy:	2.520000 kvarh
Export Reactive Energy:	1.938000 kvarh
Total System Power Demand:	0.066000
Maximum Total System Power Demand:	2195.667725
Total Active Energy:	1.169000 kWh
Total Reactive Energy:	4.458000 kvarh



**Power
Distribution
Unit**

Power Meter Probes

PDU

Power Meter Modbus Probe 2

Status:	Present
PDU Output:	ON
Voltage:	230.199997 V
Current:	3.682000 A
Active Power:	805.099976 W
Apparent Power:	805.123535 VA
Reactive Power:	5.300000 VAr
Power Factor:	0.999978
Frequency:	49.950001 Hz
Import Active Energy:	0.125000 kWh
Export Active Energy:	0.000000 kWh
Import Reactive Energy:	3.382000 kvarh
Export Reactive Energy:	0.000000 kvarh
Total System Power Demand:	0.000000
Maximum Total System Power Demand:	1493.318481
Total Active Energy:	0.125000 kWh
Total Reactive Energy:	3.382000 kvarh

Temperature Sensors

Sensor 1		Sensor 2	
Status:	Present	Status:	Present
Temperature:	18.687000 °C	Temperature:	18.812000 °C
Sensor 3		Sensor 4	
Status:	Present	Status:	Present
Temperature:	18.375000 °C	Temperature:	18.500000 °C

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Netshield Smart metering PDU's

Features:

- Netshield Smart Metering WEB/SNMP Managed PDU with IEC60309 (Hubble)
- Measures kWh, kVArh, kW, Kvar, kVA, PF, Hz, VAC and Amp.
- Bi-directional measurement IMP & EXP
- Dual pulse outputs
- TCPIP Ethernet, USB, RS485 2-wire Modbus & 1-wire sensor connectivity
- Class 1 or better accuracy
- Easy installation, Cost-sensitive Environments
- Single or extended capacities.
- Vertical models use industry standard front panel mounting.
- Web-based and SNMP monitoring and control.
- Local Power Display.
- Alarm Thresholds.

Technical features:

- Warranty: 3 year warranty
- Dimensions (W x D x H): SMART PDU 750 x 70 x 80, PDU EXTENSION 445 x 70 x 80 mm
- Weight: SMART PDU 3.7kg, PDU EXTENSION 1.9kg
- Voltage: 190 to 240VAC
- Current: 10 to 32Amp

Product Matrix:

PRODUCT CODE	PDU's – SMART METERING
NSP32C138C19-32A	SMART Metered PDU 1 x 32A feed, 16 x C13, 4 x C19 + PDU EXTENSION C20 16A feed, 16 x C13, 4 x C19 with USB, Ethernet, RS485 and 1-wire interface
NSP16C134C19-32A	SMART Metered PDU 1 x 32A feed, 16 x C13, 4 x C19 with USB, Ethernet, RS485 and 1-wire interface
NSP32C138C19-EXT	PDU EXTENSION C20 16A feed, 16 x C13, 4 x C19 with RS485 and 1-wire interface
PRODUCT CODE	SENSORS
NSPOD-1WI2CANL	Sensor hub with RS485 interface and RJ45 connection points for multiple sensors with I ² C, 1-Wire or water detection interfaces. Sensor hub protocol is selectable for MODBUS or NSP.
NPLG1WTMP2M	1 - wire temperature sensor in RJ45 pluggable extension enclosure
NBAR-I2C-POD	Relative humidity Sensor with I ² C interface in RJ45 pluggable extension enclosure, Humidity range of 0 - 98% in 0.03% increments
NH2ODC	Water Leak detection sensor