20 Amp PanView iQ™ (PViQ™) Switched and Environmental Power Outlet Units



specifications

PViQ™ Power Outlet Units shall integrate with the Panduit® PIM™ Software Platform to enable intelligent management of the in-cabinet power usage. This system helps to quickly identify and resolve power issues, find and reclaim available or underutilized power capacity and automate collection of real-time and accurate power information. The units shall have the ability to power cycle individual outlets or a group of outlets on or off to reboot equipment. They shall have remote monitoring for power consumption and environmental capability to monitor temperature, airflow, humidity or dew point. The units shall mount vertically to the Net-Access™ Cabinets, Net-SERV™ Cabinets or Panduit 4 post racks. The vertical power outlet units shall have 20 amp circuits, which have multiple outlet options with standard IEC compliant receptacles. Power outlet units include a 10 foot cord utilizing NEMA twist lock plugs and have a black powder-coated finish. Installed units shall allow quick and easy firmware updates.



technical information

Dimensions:	QS0B1F0BA2411: 66.3"H x 2.5"W x 2.3"D (1683mm x 64mm x 57mm) QS0B1J0BA2411: 66.3"H x 2.5"W x 2.3"D (1683mm x 64mm x 57mm) QS0D1K0BA2411: 66.3"H x 2.5"W x 2.3"D (1683mm x 64mm x 57mm)
Power outlet unit mounting:	Vertical power strips provide multiple outlets and do not occupy any rack spaces
Power outlet unit packaging:	All power outlet units include 10' power cords, mounting brackets, screws, and tool-less button mounting

key features and benefits

Remote switching capability	Power cycle individual outlets or a group of outlets on or off to reboot equipment or power off individual outlets to stop unauthorized use
Time delay sequencing	To avoid circuit overload due to high in rush current at equipment start up
Remote access to power consumption data	Web-based GUI provides global network access to real-time power information to improve data center energy efficiency and reduce operating costs through analysis of power usage and trends
Integrates with Panduit® PIM™ Software	Aggregates power and environmental information through a single web based GUI to facilitate easy analysis of data
Environmental monitoring	Measure in-cabinet temperature, humidity, airflow, and dew point remotely to prevent environmental factors that can cause equipment to overheat or malfunction
Alarm messaging capability	Provides user-defined alarm/messaging capabilities for specific events that exceeded thresholds to help minimize network downtime
Certification/agency approvals	Complies with UL and c-UL Listed 60950
Outlet status	Each outlet has a green LED for indication if the outlet is on or off for easy visual identification

applications

Panduit® PViQ™ Switched Power Outlet Units can either be utilized standalone for smaller installations or seamlessly feed information directly into the Physical Infrastructure Manager™ (PIM™) Software Platform for larger data centers. The PViQ™ POUs provide continuous real-time power and environmental monitoring via the network for enhanced system management and reliability.

The PViQ™ POUs safely and efficiently manage and distribute power to allow multiple pieces of equipment to share a single power connector to enhance scalability of network build outs. Mounting flexibility allows quick and easy installation and when used with Panduit Net-Access™ and Net-SERV™ Cabinets the user receives a complete networking solution that will satisfy data center requirements today and into the future.

PIM™ Software Platform and Modules

Base functionality module: Power module:

PIM-BASE PIM-POWER

PViQ™ C14 Power Cord Adapters

US: PVQ-C14ADPTR-S Japan: PVQ-C14ADPTR-J

Vertical Single Phase, 208V, 20A, 21 IEC 13 and 3 IEC-19 Outlets

Aggregate

monitoring:

QS0B1F0BA2411

Vertical 3~WYE, 208V, 20A, 21 IEC-13 and 3 IEC-19 Outlets

Phase monitoring (X,Y,Z):

QS0B1J0BA2411

Vertical Single Phase 230/400V 20A, 21 IEC-13 and 3 IEC-19 Outlet

Phase monitoring (X,Y,Z):

QS0D1K0BA2411

PViQ™ Remote Display Monitor

10' cord: PVQ-RD

PViQ™ Environmental Sensors

Temperature 12' cord: PVQ-EST-12

Temperature, humidity, airflow, dew point,

12' cord: PVQ-ESTAFHD-12

PViQ[™] Environmental RJ12 five Way Splitter

RJ12 5-way: PVQ-ESP-5
Net-Access™ Server Cabinet

32"W x 45 RU: CS1, CS2 and CS3

Net-Access™ Switch Cabinet

32"W x 45 RU: CN1, CN2 and CN3

Net-SERV™ High Density Server Cabinet with Solid Side Panels

28"W x 42 RU: S722C122H **28"W x 45 RU:** S752C122H **24"W x 42 RU:** S622C122H **24"W x 45 RU:** S652C122H

Net-SERV™ Standard Density Server Cabinet with Solid Side Panels

28"W x 42 RU: S722C122F 28"W x 45 RU: S752C122F 24"W x 42 RU: S622C122F 24"W x 45 RU: S652C122F

Net-SERV™ Vertical Patch Panel Server Cabinet with Solid Side Panel

28"W x 42 RU: S722C122P **28"W x 45 RU:** S752C122P

Net-SERV[™] Vertical Exhaust Duct Server Cabinet with One Solid Side Panel

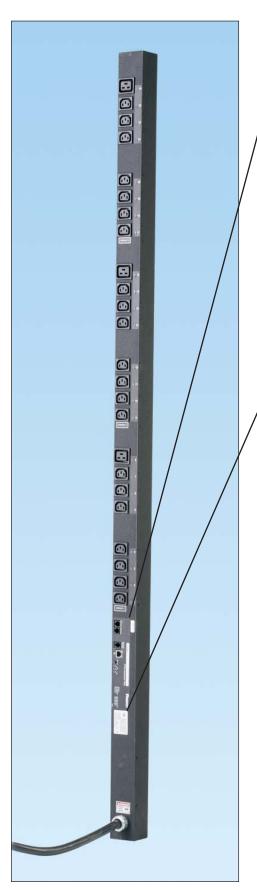
28"W x 42 RU: S722C131HV 28"W x 45 RU: S752C131HV 24"W x 42 RU: S622C131HV 24"W x 45 RU: S652C131HV

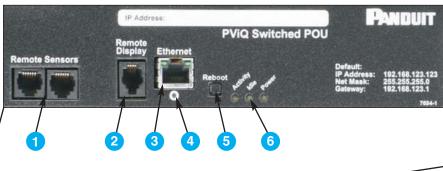
Power Cord C13 - C14 End

 1.5 foot:
 PC14C13BL1.5

 2 foot:
 PC14C13BL2

 3 foot:
 PC14C13BL3





1 Remote Sensors

- Two RJ12 connector ports to monitor temperature and humidity
- Receive SNMP-based or email alert notifications when conditions exceed defined thresholds

2 Remote Display Connection

- Optional 2 line x 8 character LED display (sold separately part number PVQ-RD)
- Based on checked sensor items selected on the Logging screen, the monitor will scroll through and display each measurement
- Can be mounted separate from the unit
- Provides real-time power consumption at the power strip, for improved power manageability and network reliability
- Scrolls through the most recent current measurement (in amps) for each circuit, one at a time
- Local audible alarm when threshold limits have been reached

3 Network Connection

• RJ45 connections for remote power monitoring

4 IP Reset

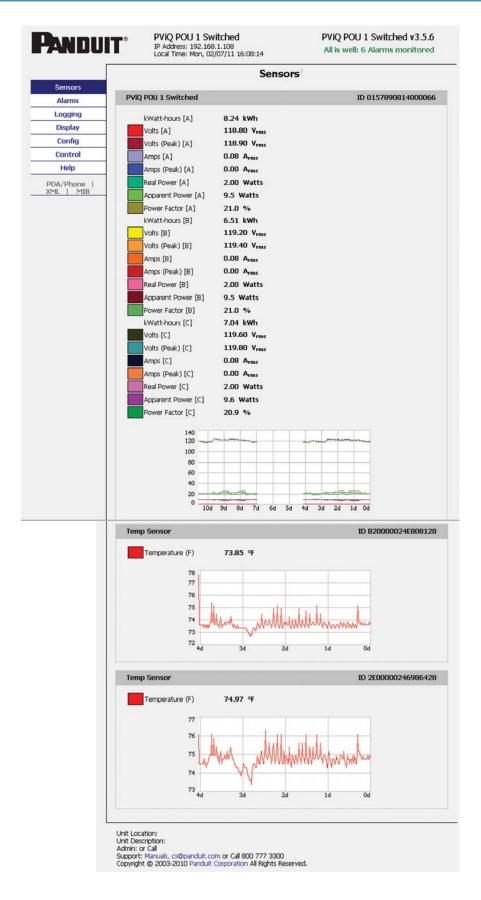
• Resets the IP address

5 Resetting the POU

 If communication is lost, the processor maybe manually rebooted without affecting power to the outlets

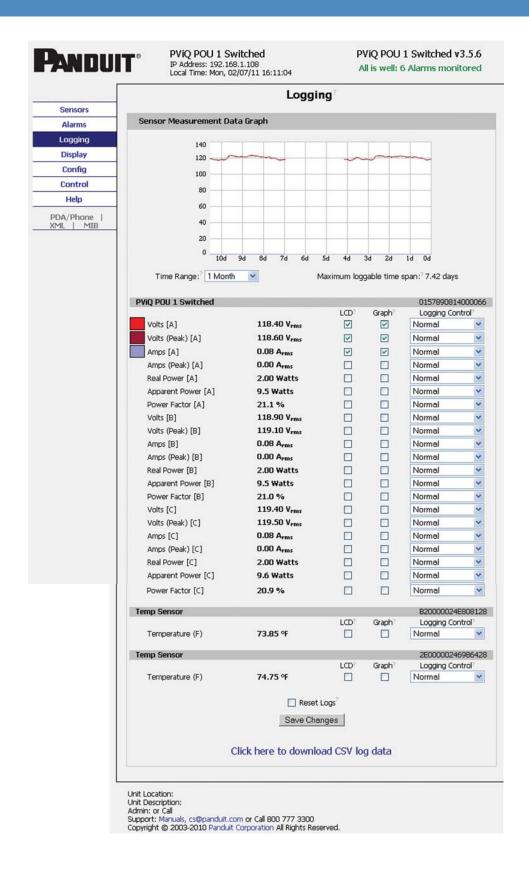
6 POU Lights

 Activity and Idle lights will light up when the reset button is used to restore the default IP address.
 Power light indicates unit is on



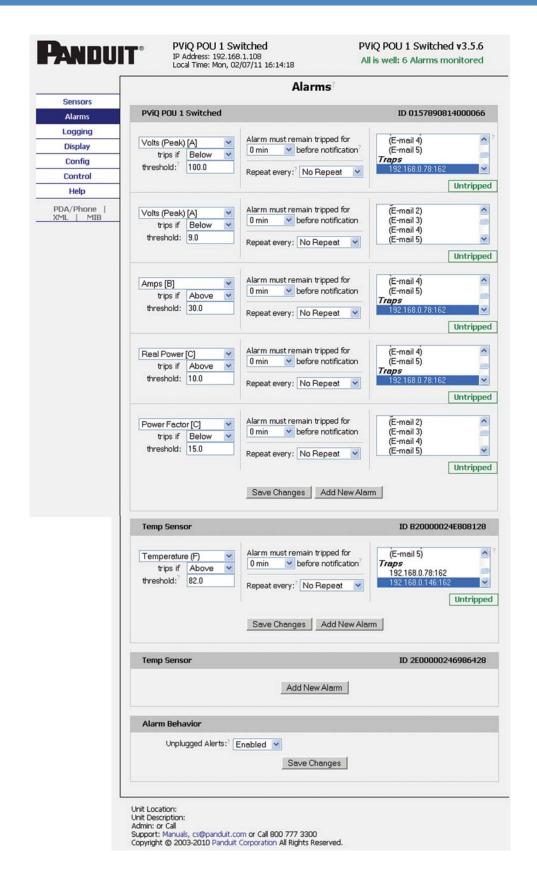
Sensors

- Provides real time current power information via a standard web browser
- Real time readings provide power and sensor data graphed



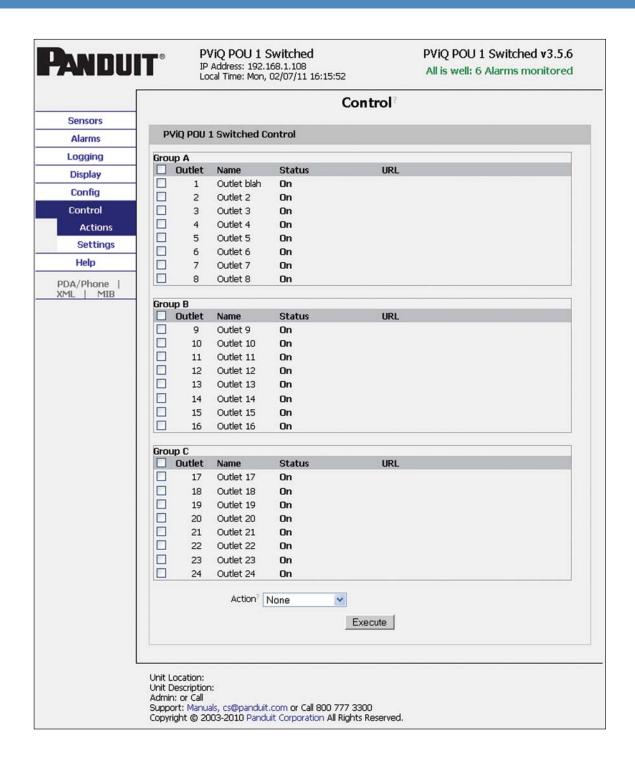
Logging

- Provides historical data by selecting the desired sensors and time range to be graphed
- Checked readings in the Logged Measurements section are logged into the data file at a rate of one point per minute and will be available for graphing and display
- Recorded data is available for download in a comma-separated values (CSV) filed



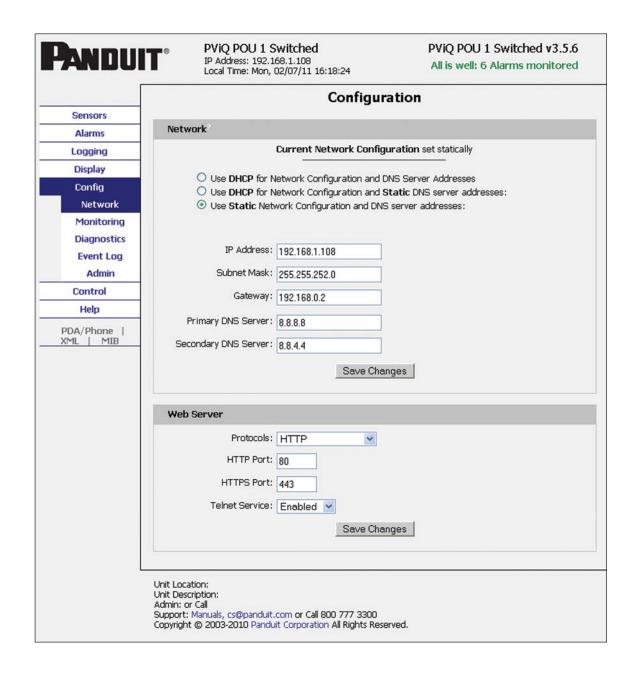
Alarms

- Alarm status provided if defined thresholds are greater than entered
- · Allows the user to establish alarm conditions for each sensor reading
- Alarm conditions can be established with either high or low trip thresholds



Contro

- The Actions tab on the Control page gives the user control of the outlets
- Outlets can be rebooted or turned on/off with or without pre-programmed delays



Configuration

· Simple network configuration for easy setup



PVQ-EST-12

Temperature range: -40°F to 254°F Accuracy: +/- 1.8°F from 40°F to 122°F Monitor "hot spots" throughout your installation.



PVQ-ESTAFHD-12

Temperature range: -40°F to 254°F Accuracy: +/- 9°F from 50°F to 185°F

Airflow: 0-99 - relative

Humidity: RH Accuracy +/- 2% RH, Range: 0 to 100% RH, non-condensing

Single cord monitors four environmental conditions.



PVQ-ESP-5

Expand the number of sensors connected to your unit with RJ12 sensor ports.



PVQ-RD

The local display can be mounted outside the cabinet for ease of viewing power/environmental data without opening the cabinet.

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Contact Customer Service by email: cs@panduit.com or by phone: 800.777.3300 and reference PVSP57

