# 30, 50, and 60 Amp PanView iQ<sup>™</sup> (PViQ<sup>™</sup>) Switched and Environmental Power Outlet Units

# **PANDUIT** SPECIFICATION SHEET

### specifications

PViQ<sup>™</sup> Power Outlet Units shall integrate with the Panduit<sup>®</sup> PIM<sup>™</sup> 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<sup>™</sup> Cabinets, Net-SERV<sup>®</sup> Cabinets or Panduit 4 post racks. The vertical power outlet units shall have 30 amp circuits, which have multiple outlet options with standard IEC compliant locking receptacles. Power outlet units shall have a black power coated finish with a 10 foot cord utilizing NEMA, California and IEC style plugs. Installed units shall allow quick and easy firmware updates.



## technical information

Dimensions:	QS1A1M2BM24C1:       70.0"H x 2.5"W x 2.3"D (1683mm x 64mm x 57mm)         QS1B1L2BN24AA1:       70.0"H x 2.5"W x 2.3"D (1778mm x 64mm x 57mm)         QS1B1P3BN2491:       72.3"H x 2.5"W x 2.3"D (1829mm x 64mm x 57mm)         QS1D1Q3BN2401:       72.0"H x 2.5"W x 2.3"D (1829mm x 64mm x 57mm)         QS1B1P3BN2401:       72.0"H x 2.5"W x 2.3"D (1829mm x 64mm x 57mm)         QS1B1N3BN2401:       72.0"H x 2.5"W x 2.3"D (1829mm x 64mm x 57mm)         QS1B1N3BN2401:       72.0"H x 2.5"W x 2.3"D (1829mm x 64mm x 57mm)         QS1B2T6BN2491:       66.3"H x 4.0"W x 3.4"D (1683mm x 102mm x 86mm)         QS1B2G6BN2491:       66.3"H x 4.0"W x 3.4"D (1683mm x 102mm x 86mm)		
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 to prevent environmental factors that can cause equipment to overheat or malfunction
Locking IEC receptacles	Support and retain any standard IEC power cords preventing unintentional power loss
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
Integrated power	On board display has 2 line x 8 character LED providing real-time power consumption at the power strip
Outlet status	Each outlet has a green LED for indication if the outlet is on or off for easy visual identification

### applications

Panduit PViQ<sup>™</sup> Switched Power Outlet Units can either be utilized standalone for smaller installations or seamlessly feed information directly into the Physical Infrastructure Manager<sup>™</sup> (PIM<sup>™</sup>) Software Platform for larger data centers. The PViQ<sup>™</sup> POUs provide continuous real-time power and environmental monitoring via the network for enhanced system management and reliability. The PViQ<sup>™</sup> 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<sup>®</sup> Net-Access<sup>™</sup> and Net-SERV<sup>®</sup> Cabinets the user receives a complete networking solution that will satisfy data center requirements today and into the future.

1.5 foot:

2 foot:

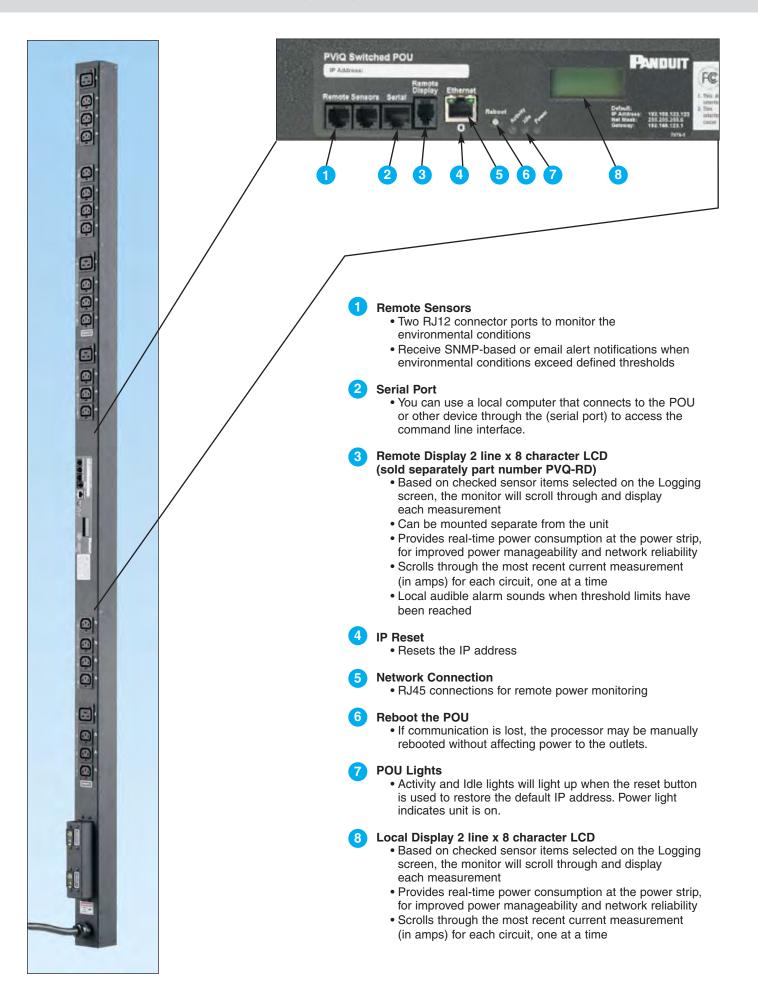
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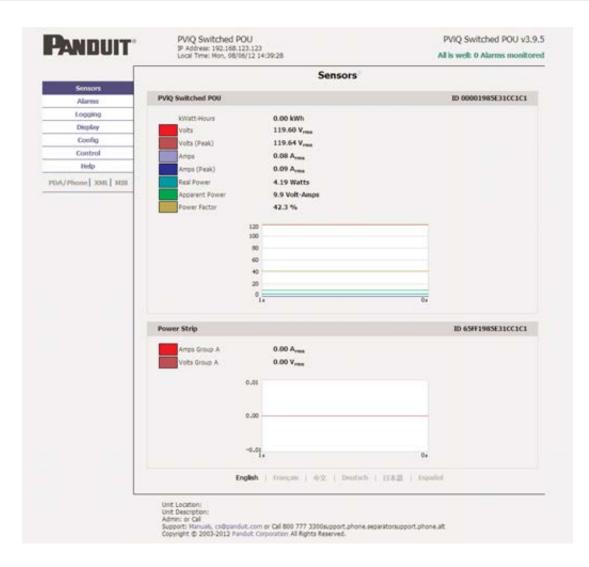
PC14C13BL1.5

PC14C13BL2

PC14C13BL3

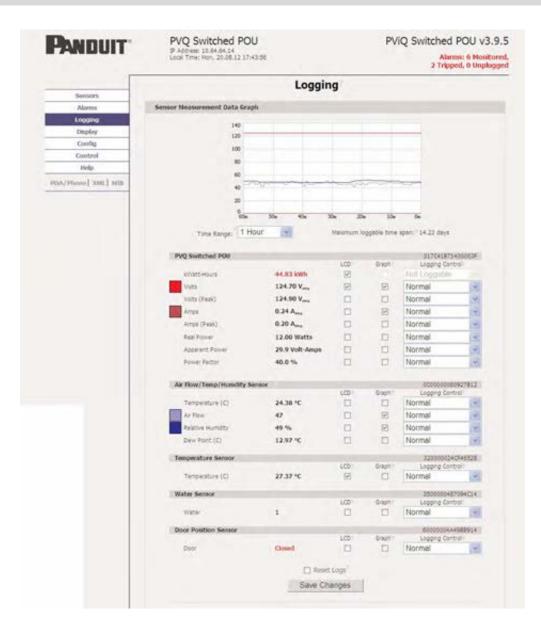
SFEGIFICATI	ION SHEET
PIM <sup>™</sup> Software Platform	and Modules
Base functionality	
module: Power module:	PIM-BASE PIM-POWER
PViQ <sup>™</sup> C14 Power Cord	Adapters
US:	PVQ-C14ADPTR-S
Japan:	PVQ-C14ADPTR-J
Vertical Single Phase 12 NEMA 5-15 Outlets	20V, 30A, 24
Aggregate monitoring:	QS1A1M2BM24C1
Vertical Single Phase, 2	08V, 30A, 20 IEC
13 and 4 IEC-19 Locking Aggregate monitoring:	QS1B1L2BN24AA1
Vertical 3~ WYE 208V, 3	
and 6 IEC-19 Locking re	
Phase monitoring (X, Y, Z):	QS1B1P3BN2491
Vertical 3~ WYE 208/400	
and 3 IEC-19 Locking re	
Phase monitoring (X, Y, Z):	QS1D1Q3BN2401
Vertical 3~ WYE 208V, 3	
IEC-19 Locking receptad	
Phase monitoring	QS1B1P3BN2401
(X, Y, Z): Vertical 3~ Delta 208V, 3	
and 3 IEC-19 Locking O	utlets
Phase monitoring	QS1B1N3BN2401
(X, Y, Z): Vertical 3~ Delta 208V, 5	
and 6 IEC-19 Locking O	
Phase monitoring	QS1B2T6BN2491
(X, Y, Z): Vertical 3~ Delta 208V, 6	
and 6 IEC-19 Locking O	
Phase monitoring	QS1B2G6BN2491
(X, Y, Z):	
PViQ <sup>™</sup> Remote Displav	Monitor
PViQ <sup>™</sup> Remote Display I 10' cord:	Monitor PVQ-RD
	PVQ-RD
10' cord: PViQ <sup>™</sup> Environmental Se Temperature 12' cord:	PVQ-RD ensors PVQ-EST-12
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10' cord: <b>PViQ<sup>™</sup> Environmental Si</b> Temperature 12' cord: 18' cord: Temperature, humidity, airflow, dew point, 12' cord: 18' cord: Door position 30' cord: Water sensor 20' cord: <b>PViQ<sup>™</sup> Environmental Si</b> RJ12 five-way:	PVQ-RD ensors PVQ-EST-12 PVQ-EST-18 PVQ-ESTAFHD-12 PVQ-ESTAFHD-18 PVQ-ESDPK PVQ-ESDPK PVQ-ESWK
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#### Sensors

- Provides real time current power information via a standard web browser
- Real time readings provide power and sensor data graphed
- Alternate formats for data can be downloaded in PDA, XML and SNMP



#### Logging

- Check boxes under the LCD or graph heading allow the user to select which readings are to be on the local meter
- Logging Control allows the user to select between different modes of logging data, data logged once per minute, high value logged each minute or low value logged each minute Check boxes under the LCD or graph heading allow the user to select which readings are to be on the local meter
- Logging Control allows the user to select between different modes of logging data, data logged once per minute, high value logged each minute or low value logged each minute
- 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

2 Address: 10.64.64.14 Local Time: Mor. 20.08.12 16:26/0	9	Alarms: 6 Monits 2 Tripped, 0 Unplug
	Alarms	
Q50A1C08A24C1		ID 017C418714000038
	Marine and an experimental first	F-mail
kWatt-Hours [Total]	Alarm must remain tripped for 3 (min) before notification	
trips if Above m threshold: 16.0		(t mail 3)
	Repeat every: 10 min	Tripped
	Alarm must remain troped for	F-mail (
kWatt-Hours	0 (min) before notification	
threshold: -999.0	Repeat every: No Repeat	(C (iser-3)
	report over 1 ( the respect of the	Untripped
1	Save Changes Add New Alz	irm
Air Flow/Temp/Humdity Sensor		ID 0C0000000927812
Temperature (C)	Alarm must remain tripped for	[-mail
tros / Below	0 (min) before notification	
threshold: -999.0	Repeat every: No Repeat	(Lise-1)
	Save Changes Add New Ala	Untripped
1	Seve changes hou wear he	8-00
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Temperature (F)	Alarm must remain tripped for 3 (min) before notification	E-mail
trips if Above with the threshold: 110.0		((-mail 3)
	Repeat every: No Repeat	Untripped
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Water Sensor		ID 3500000487094C14
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Water Sensor Water tios # Below w	Alarm must remain bripped for 0 (min) before notification	F-mail
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Water trice f Below triveshod:/ -999.0 Door Position Sensor Door trice f Below triveshod:/ 50.0	(min) before notification      Repeat every: No Repeat      Save Changes      Add New Ala      Alarm must remain tripped for      O     (min) before notification      Repeat every: 30 min      Save Changes      Add New Ala	E GOODOOOAA4988914
Weter troo f Below threshold: -999.0		E GOODOOOAA4988914
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Water tros f tros f 999.0 Deor Position Sensor Door tros f Below troshoit: 50.0 Alarm Behavior Unplugged Alerts:		Im D 60000004A4988914

#### 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



PVQ Switched POU P Address: 10.64.64.14 Local Time: Mon, 20.08.12 17:10:24

### PViQ Switched POU v3.9.5

Alarms: 6 Monitored, 2 Tripped, 0 Unplugged

Adams         PVQ Switched POU Control           Group A         Group A           Outlet         Name         Status         URL           Actions         1         POU 14 - 1         Off           Actions         1         POU 14 - 2         On           Settings         5         POU 14 - 3         On           Belp         5         POU 14 - 4         On           DA/Phone         XML         MB         6         POU 14 - 5         On           100         POU 14 - 10         On         On         On         On           11         POU 14 - 10         On         On         On         On           11         POU 14 - 10         On         On         On         On           12         POU 14 - 10         On         On         On         On           121         POU 14 - 13         On         On         On         On           133         POU 14 - 13         On         On         On         On           133         POU 14 - 13         On         On         On         On           14         POU 14 - 13         On         On         On         On	Sensors	Control				
Group A           Display           Config         Outlet         Name         Status         URL           Config         1         POU 14 - 1         Off         Off         Off           Actions         1         POU 14 - 1         Off         Off         Off         Off           Actions         3         POU 14 - 3         On         Off         Off		PVIO S	witched PO	U Control		
Orong Ide         None         URL           0000 Het         Name         Status         URL           0 outlet         1         POU 14 - 1         Off           2         POU 14 - 2         On         On           Actions         3         POU 14 - 3         On           Settings         4         POU 14 - 4         On           6         POU 14 - 5         On         On           7         POU 14 - 7         On         On           0         9         POU 14 - 7         On           11         POU 14 - 7         On         On           12         POU 14 - 9         On         On           11         POU 14 - 9         On         On           12         POU 14 - 10         On         On           13         POU 14 - 13         On         On           14         POU 14 - 13         On         On           15         POU 14 - 14         On         On           16         POU 14 - 15         On         On           17         POU 14 - 16         On         On           20         POU 14 - 20         On         On <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th></tr<>						
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Control       2       POU 14 - 2       On         Actions       3       POU 14 - 3       On         Settings       4       POU 14 - 4       On         Big       5       POU 14 - 5       On         MA/Phonel XMM_ MIB       6       POU 14 - 6       On         10       POU 14 - 8       On         11       POU 14 - 9       On         12       POU 14 - 10       On         13       POU 14 - 12       On         14       POU 14 - 13       On         12       POU 14 - 13       On         13       POU 14 - 13       On         14       POU 14 - 17       On         15       POU 14 - 15       On         16       POU 14 - 17       On         15       POU 14 - 15       On         16       POU 14 - 10       On         17       POU 14 - 10       On         19       POU 14 - 20       On         21       POU 14 - 21       On         22       POU 14 - 23       On         23       POU 14 - 23       On         23       POU 14 - 24       On	Display					URL
Control       3       POU 14 - 3       On         Actions       4       POU 14 - 4       On         Settings       5       POU 14 - 5       On         Help       6       POU 14 - 6       On         M/Phone! XML   MIB       8       POU 14 - 7       On         M/Phone! XML   MIB       9       POU 14 - 8       On         10       POU 14 - 10       On         11       POU 14 - 10       On         12       POU 14 - 12       On         13       POU 14 - 12       On         14       POU 14 - 13       On         15       POU 14 - 15       On         16       POU 14 - 17       On         17       POU 14 - 17       On         18       POU 14 - 19       On         22       POU 14 - 20       On         23       POU 14 - 21       On         23       POU 14 - 23       On         23       POU 14 - 24       On         23       POU 14 - 24       On	Config	the second se				
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Settings         Help         MA/Phonel XMUL MUB         0       6       POU 14 - 5       On         0       7       POU 14 - 7       On         0       9       POU 14 - 9       On         10       POU 14 - 9       On         11       POU 14 - 10       On         12       POU 14 - 11       On         13       POU 14 - 13       On         14       POU 14 - 13       On         15       POU 14 - 15       On         16       POU 14 - 17       On         18       POU 14 - 19       On         19       POU 14 - 12       On         20       POU 14 - 12       On         21       POU 14 - 13       On         22       POU 14 - 10       On         23       POU 14 - 20       On         24       POU 14 - 21       On         23       POU 14 - 23       On         24       POU 14 - 24       On	Actions	1.000				
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16       POU 14 - 16       On         17       POU 14 - 17       On         18       POU 14 - 18       On         19       POU 14 - 19       On         20       POU 14 - 20       On         21       POU 14 - 21       On         22       POU 14 - 22       On         23       POU 14 - 23       On         24       POU 14 - 24       On			14	POU 14 - 14	On	
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#### Control

- 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

ANDUIT	PVQ Switched POU IP Address: 10.64.64.14 Local Time: Mon, 20.08.12 16:56:	55	PViQ Switched POU v3.9. Alarms: 6 Monitorer 2 Tripped, 0 Unplugge
		Configuration	
Sensors			
Alarms	Network		
Logging		Current Network Configuration se	t statically
Display			
Config		infiguration and DNS Server Addresse	
Network		infiguration and Static DNS server ad	dresses:
Monitoring		guration and DNS server addresses:	
Diagnostics Event Log	IP Address: 1	0.64.64.14	
Admin	Subnet Mask: 2	55 255 255 0	
Control			
Help	Gateway: 1	0.64.64.1	
Phone XML MIB	Primary DN5 Server: 8	8.8.8	
	Secondary DNS Server: 8	0.4.4	
		.0.4.4	
		Save Changes	
	Web Server		
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	HTTP Port: 8	0	
	HTTPS Port: 4	43	
	Telnet Service: E	nabled ~	
		Save Changes	
	English   1	rançais   中文   Deutsch   D	本語   Español
	English   1 Unit Location: Unit Description: Admin: or Cal Support: Manuals, cs@panduit.com or C Copyright @ 2003-2012 Panduit Corpor	rançais   中文   Deutsch   D	

### Configuration

• Simple network configuration for easy setup



PVQ-EST-12 and PVQ-EST-18

Temperature range: -40°F to 254°FAccuracy: +/- 1.8°F from 40°F to 122°FMonitor "hot spots" throughout your installation. Available in 12 and 18 foot lengths.



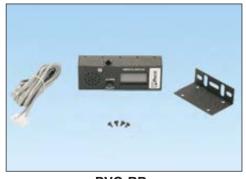
**PVQ-ESTAFHD-12 and PVQ-ESTAFHD-18** 

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. Available in 12 and 18 foot lengths.



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.



**PVQ-ESWK** 

Environmental water sensor, 20' cord. Acts as a conductivity bridge to detect the presence of moisture or water in your facility.



#### **PVQ-ESDPK**

Door position sensor, 30' cord. Monitor cabinet door position open or closed. Set alarms to alert when a cabinet has been accessed.

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

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