Intelligent Rack Power Distribution

Dominion PX Series

Intelligent PDU that simplifies access to and control of power in the data center.

– Remote serial and TCP/IP access to outlet-level switching. User-configurable, outlet-level delays for power sequencing. (4000 series models do not switch power.)

– Single IP address control of outlet groups within a single PDU or across multiple PDUs.

– Unit-level and outlet-level power utilization information.

– Alerts via SNMP, e-mail, and syslog when thresholds are exceeded.

– Environmental sensors including temperature and humidity.

– 256-bit AES encryption and strong passwords.

– Advanced authorization options including outlet-level permissions and LDAP/S, RADIUS, and Active Directory®.

– Supports HTTP, HTTPS, IPMI, SMASH-CLP, SSH, TELNET and SNMP.

Combined temperature and humidity sensor

4-port hub with sensor connected

Remote serial and TCP/IP outlet-level and PDU-level power monitoring

Dominion PX, the Raritan family of next-generation, intelligent rack power distribution units (PDUs), are the most intelligent rack PDUs on the market.
They provide the following:

▶ Real-time PDU-level and outlet-level monitoring of power
▶ Remote PDU-level and outlet-level power switching
▶ Rack temperature and humidity monitoring

Dominion PX solutions help IT administrators and facilities managers:

▶ Improve uptime and staff productivity
▶ Efficiently utilize power resources
▶ Make informed capacity planning decisions
▶ Save power and money
▶ Take a step towards becoming a more green data center

You get control over data center power in ways a "brick with electricity" simply can not deliver. And a simple firmware download will bring upgrades, new features and sophisticated integration with other IT infrastructure management solutions.

Access to electrical power is becoming more and more difficult at a time when the need for power is increasing to support blade servers and racks densely packed with IT equipment. The cost of power is going up both in absolute terms and relative to total data center costs. And there are growing environmental concerns and regulations that will affect data center operations.

Information provided by the intelligent Dominion PX is displayed at the PDU with LEDs and remotely through a Web browser. You can monitor the power in the lines, at each outlet, and even the status of the circuit breakers. And unlike other PDUs, PX models provide accurate information even when the power isn't a pristine sine wave.

Power can be switched at both the PDU and each individual outlet. Outlet grouping allows administrators to control multiple outlets within a single PDU or across multiple PDUs with a single IP address. This is particularly useful when you power cycle devices with more than one power supply.

Dominion PX supports up to eight, automatically detected, environmental sensors per PDU, including temperature and humidity. These sensors help data center managers understand hot spots, efficiently and optimally cool equipment and manage the risks associated with static electricity.

Dominion PX supports SNMP for TRAPs, SETs and GETs. Security is ensured with username and password protection. Thresholds and alerts can be set for both power and environmental monitoring to understand potential fault situations before they lead to actual outages.

Know more. Manage smarter.™

Whether used alone, with Power IQ™, or integrated with other Raritan solutions, the intelligent Dominion® PX PDU offers secure access with 256-bit AES encryption and strong passwords. Dominion PX supports advanced authorization options, including outlet-level permissions and LDAP/S, RADIUS, and Active Directory®. Flexible management interfaces support HTTP, HTTPS, IPMI, SMASH-CLP, SSH, TELNET and SNMP v2 and v3 with encryption, as well as user-configurable, outlet-level delays for power sequencing.

Dominion PX intelligent PDUs can be managed by Power IQ and integrated with the following Raritan solutions:

▶ KVM switches: Dominion KX II and Paragon II
▶ Secure console servers: Dominion SX
▶ Centralized IT infrastructure management: CommandCenter® Secure Gateway

UL 489 hydraulic-magnetic circuit breaker on 30 Amp PDU.

Rear of 1U PDU showing current draw for outlet #7. Red LEDs show outlets that are switched on. Green LEDs show outlets that are switched off.

Outlets Display

Each outlet features an icon whose color and flashing status reflect the status of the outlet.

PDU Status

Line, circuit and outlet status and temperature and humidity readings on the home page of the Web-based GUI. The tabs across the top provide access to greater details, user configurable thresholds and many other energy managment tools.

To see more screen shots from the Dominion PX go to **www.raritan.eu/px-screenshots**

New certification requirements were issued in April 2003 by Underwriters Laboratories requiring UL 489 circuit breakers for PDU configurations greater than 20 amps. The best high-power PDUs for data center use are those, like the Dominion PX, with hydraulic-magnetic circuit breakers designed with delay curves appropriate for IT equipment.

Dominion PX is available in Zero U, 1U and 2U form factors with 8, 12 and 20 outlets. Both NEMA- and IEC-type plugs and receptacles are available in 120 Volt (15, 20 and 30 Amp), 208 Volt (20 and 30 Amp) and 230 Volt (16 and 32 Amp). Certifications include FCC Part 15, A and cTUVus which is fully compliant with UL 60950-1 Rev. 3, EN 55022, Class A, EN 55024, EN 60950-1, CE mark, C-Tick and PSE. Units are RoHS/WEEE compliant.

Ready to manage smarter? Do it with Raritan's Dominion PX.
Call +31 (0)10 284 4040 or visit Raritan.eu/PX

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Dominion PX Specifications Chart

Model	Controllable Receptacles	Input Voltage Phase	Maximum Amps Derated VA	Rack Space	Plug Type	Dimension (WxDxH)	Weight
DPCR8A-16	8 x IEC C-13	230 VAC, 1 PH	16A 3.7kVA	1U	IEC 60309 16A	440 x 167 x 44mm; 17.32" x 6.57" x 1.73"	3.6 kg; 8.0 lbs
DPCS12A-16	12 x IEC C-13	230 VAC, 1 PH	16A 3.7kVA	Zero U	IEC 60309 16A	57 x 50 x 1253mm; 2.24" x 1.97" x 49.33"	3.5 kg; 7.7 lbs
DPCS20A-16	20 x IEC C-13	230 VAC, 1 PH	16A 3.7kVA	Zero U	IEC 60309 16A	57 x 50 x 1798mm; 2.24" x 1.97" x 70.79"	5.2 kg; 11.3 lbs
DPCR20A-32	20 x IEC C-13	230 VAC, 1 PH	32A 7.4kVA	2U	IEC 60309 32A	440 x 274 x 88mm; 17.32" x 10.79" x 3.46"	6.1 kg; 13.4 lbs
DPCS20A-32	20 x IEC C-13	230 VAC, 1 PH	32A 7.4kVA	Zero U	IEC 60309 32A	57 x 50 x 1869mm; 2.24" x 1.97" x 73.58"	5.2 kg; 11.3 lbs
DPCR20A-16	20 x IEC C-13	230 VAC, 1 PH	16A 3.7kVA	2U	IEC 60309 16A	440 x 274 x 88mm; 17.32" x 10.79" x 3.46"	6.08 kg; 13.40 lbs
PX-5314	12 x IEC C-19	400 VAC, 3 PH	16A per phase 11.1kVA	Zero U	IEC 60309 16A	52 x 65 x 1539mm; 2.06" x 2.57" x 60.59"	5.6 kg; 12.3 lbs
PX-5528	18 x IEC C-13, 6 x IEC C-19	400 VAC, 3 PH	32A per phase 6 x 16A circuit 22.2kVA	Zero U	IEC 60309 32A	52 x 65 x 1780mm; 2.06" x 2.57" x 70.08"	10.8 kg; 23.8 lbs
PX-5318	12 x IEC C-19	400 VAC, 3 PH	32A per phase 6 x 16A circuit 22.2kVA	Zero U	IEC 60309 32A	52 x 65 x 1780mm; 2.06" x 2.57" x 70.08"	10.8 kg; 23.8 lbs
DPCS16A-32-BS4343	12 x IEC C-13 4 x IEC C-19 all individually fused	230 VAC, 1 PH	32A 7.4kVA	Zero U	IEC 60309 32A	57 x 75 x 1463mm; 2.24 x 2.95 x 57.60"	4.42 kg; 9.74 lbs

Sensors

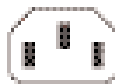| DPX-T1	DPX-T1H1	DPX-T2H2	DPX-ENVHUB4
• Temperature sensor • 3 m cord	• Temperature and humidity sensor • 3 m cord	• Dual temperature and humidity sensors 3 m apart • 6 m cord	• 4 port (RJ-12) sensor expansion hub

Add 88mm/ 3.5" (2U) to the height of the Zero U units for the Dominion PX power cable's radius of curvature. Allow approximately 114mm (4.5") additional depth to accommodate the 1U and 2U brackets, device plugs and cables. Meter accuracy +/- < 5%. Mounting brackets are included for 1U and 2U models.

Plugs and Receptacles Configuration Chart

IEC

RECEPTACLE   **PLUG**   **RECEPTACLE**   **PLUG**

IEC 60309
20 Ampere 250 Volt UL/CSA
16 Ampere 230 Volt European CE Mark

IEC 60309
30 Ampere 250 Volt UL/CSA
32 Ampere 230 Volt European CE Mark

IEC C-13   **IEC C-14**
15 Ampere 250 Volt UL/CSA
10 Ampere 250 Volt International

IEC C-19   **IEC C-20**
20 Ampere 250 Volt UL/CSA
16 Ampere 250 Volt International