



Power Distribution Unit

Powering Your Data Center with Precision and Reliability

PwrQ® PDU



Manufactured in the USA

Compliant with the latest NEC and UL standards.

01 Customizable power ratings from 150kVA to 1mVA with multiple configurable options.

02 Broad compatibility with major breaker brands: ABB, EATON, and Schneider

03 Designed to meet UL891 standards up to 100KAIC for both indoor and outdoor applications



QUICK SHIP & COMPACT DESIGN

Modular, flexible, fast.

With PwrQ's PDUs, you don't have to choose between speed or choice. We have built out dedicated production lines at our manufacturing facility with configurable options that can meet or exceed your specifications.



CUSTOMER COMMITMENT

Dependable after-sale field services

Take comfort in knowing that PwrQ has a highly integrated field services team for a lifetime of support and expertise. Our field services team can offer startup and commissioning support, flexible service plans for preventive maintenance or on-demand servicing, and rapid on-site field services in the event of a facility emergency. PwrQ field services should give you the confidence to know that your facility is under the care and support of a world-class product team.



STRONG INVENTORY SUPPORT

Parts and components in stock for upgrades

At PwrQ, our commitment extends beyond the initial sale. Our strong inventory of parts and accessories ensures that we're always ready to support your needs after purchase. You can count on us to provide timely parts and components, whether its a replacement or a new need arising in the field.

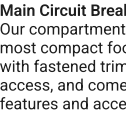


General Specifications: PwrQ PDU

Our Power Distribution Units (PDUs) are designed for scalability and rapid deployment for modern high density compute data centers. Offering increased power density in a compact and ventilated structure, advanced real time monitoring, precision engineering, and unmatched lead times.



Human-Machine Interface - HMI
Easily monitor and control your PDU with our proprietary HMI touchscreen. View real-time power metrics, manage system alarms, and make intelligent decisions for your critical power systems.



Main Circuit Breaker
Our compartmentalized main breaker has one of the most compact footprints in the industry. It is shrouded with fastened trims and doors for dedicated and safe access, and comes equipped with advanced trip unit features and accessories.



Surge Protective Device
The integral SPD mounted in the auxiliary control cabinet protects critical loads. Units have field replaceable MOVs with surge counters, phase loss indication, EMI/RFI filters, dry contacts, and audible alarms.



Control Compartment
Dedicated control panel for compartmentalized and safe access to key components such as our BCMS modules, power supplies, terminal blocks, and HMI wiring. All accessories are easily supported with our replacement parts and service program.



Heat Dissipation and Airflow
All naturally air cooled using UL and component specific ventilation requirements for optimal performance.

Transparent View
Standard visible access built into our custom doors allow facility users to view all output breakers, trip unit settings, padlock positions, and more without opening locked access doors.

Transformer Section
Housed inside our structure is the critical dry type transformer for input-output voltage. We build with multitap provisions, NEMA 2 hole compression lug pads, and vibration pads to ensure both strong mounting and contact provisions. Our design prioritizes isolation and barriers without sacrificing access and ventilation.



Forklift / Pallet Jack Provisions
Fork provisions for easy transportation and maneuverability allow safe and efficient movement of the units within the datacenter. These provisions are built into the core base skid, ensuring stability during transport without compromising structural integrity or accessibility for installation.



Additional Features



Convection Cooling
Natural air circulation maintains healthy operating conditions without the need for active cooling systems.



Transformer Vibration Isolation
Vibro-Elastic Pads enhance stability and minimize noise while protecting internal components from mechanical stress.



Sectionalized Components
Allows for isolated maintenance on de-energized sections, ensuring safety and minimizing downtime by keeping unaffected parts of the system operational

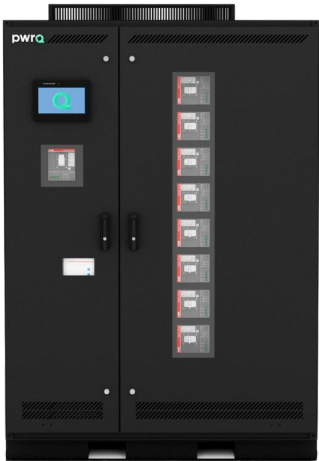


Serialized Nameplates
Labeled with a unique and searchable ID for each unit for post-sales support, maintenance, and supply chain traceability.

Technical Specifications:

PwrQ PDU

PwrQ PDUs are ventilated freestanding dual door structures rated from 150kVA to 1mVA and above with numerous configurations of transformer size and taps, branch distribution feeders, and precise metering and monitoring options throughout the unit. The PDU is engineered for increased power density requirements at modern datacenters, facility safety, and is produced on dedicated rapid assembly production lines. All units are UL listed and in full compliance with NEC.



PwrQ Power Distribution Unit

Category	Specifications
Height	84" up to 500 kVa above 500 kVa subject to engineering
Width	60" up to 500 kVa above 500 kVa subject to engineering
Depth	48" up to 500 kVa above 500 kVa subject to engineering
Weight	2,000 - 4,000 lbs up to 500 kVa above 500 kVa subject to engineering
Main Incoming Feed	Top Feed, Bottom Feed
Input Voltage	415V 480V 600V
Output Voltage	120/208V 230/400V 240/415V
Transformer Sizes	150 kVa 300 kVa 400 kVa 500 kVa 600 kVa 750 kVa 1 mVa
Transformer Windings	AL CU
Transformer K Factor Rating	K4 K13 K20
Transformer Efficiency	DOE2016
Transformer Inrush	5x
Transformer Impedance Value	6%
Transformer Vibration Pads	Standard
Transformer Electrostatic Shield	Standard
Main/Branch Circuit Breaker Selection	ABB XT Series
	Eaton PDG Series
	LS UTS Series
	Schneider Powerpact Series
Enclosure Type	Type 1 Indoor
Accessibility	Front Access; Side Access
Exterior Paint Color	Gray ● / Black ● / White ○ / Other Custom

Service Plans

Startup & Commissioning



Energize and commission the PDUs on site in accordance with PwrQ manufacturer's specifications. On-site training is also provided.

Preventive Maintenance Plan



Conduct regular and routine maintenance on PwrQ PDUs to ensure they remain in optimal working condition. This minimizes the risk of malfunctions and reduces unexpected downtime. Maintenance plans are available at 6, 12, and 18-month intervals.

Full-Service Plan



This comprehensive plan integrates Preventive Maintenance with an on-call field service team ready to address any service disruptions. Service options include availability for 5 days a week, 8 hours a day, or round-the-clock support, 7 days a week.



Get in touch with our sales engineering team

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