



Remote Power Panels


# High Density Power Solution for Critical Compute Infrastructure

PwrQ® RPP




# Manufactured in the USA

Compliant with the latest NEC & UL standards.




### CONFIGURABLE AND COMPACT

We have engineered a sleek and space-efficient design to facilitate various installation applications, including wall-mount, in-tile, on-tile, and multi-unit configurations. Embracing a truly modular approach, our RPP can be seamlessly field-modified, ensuring it remains perfectly aligned with evolving demands of our user's facilities and securing your investment for the future.



### SAFE AND USER-FRIENDLY

With significant design feedback from actual operators, we built a structure that prioritizes operator safety and convenience. A central backplate with adjustable depth, hinged screw covers with a quick disconnect hinge design ensures ease of access to interior components. Visible circuit designations allow operator to maintain and analyze electrical components without opening trims under live conditions. Isolated control components are compartmentalized for easy access and increased operator protection.



### INTELLIGENT POWER MONITORING

Benefit from the exceptional power metering capabilities integrated into our RPP. Our power monitoring platform boasts impressive connectivity across cloud-based and on-premise options. Our load carrying components are easily monitored with highly informative features across current (A), power factor (kW), waveform capture, and more. Combining the connectivity and power metering standards of our RPP will help elevate your facility to new heights of efficiency and control.



### RESPONSIVE AND TRUSTED FIELD SERVICE RESOURCES

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-certified field services should give you the confidence to know that your facility is under the care and support of a world-class product team.




General Specifications	
Height	90" (229 cm)
Width	24" (61 cm)
Depth	15" (38 cm)
Weight	500-550 lbs ; 227-249 kg
Enclosure	Type 1 Indoor

Standards Compliance	
UL	Listed UL891
NEMA	AB1
NFPA	70E
NEC	2023


## Service Plans

### Startup & Commissioning




Energize and commission the S1 switchboards 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 S1 switchboards 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



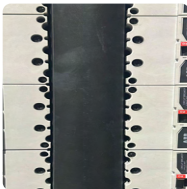
This comprehensive plan integrates Preventive Maintenance with an on-call field service team ready to address any service disruptions. Service options include availability for 5 days a week, 8 hours a day, or round-the-clock support, 7 days a week.

# General Specifications: PwrQ RPP

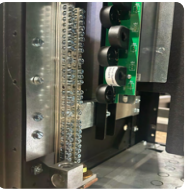
An advanced, scalable, and intelligent solution for multi circuit power distribution expansion in data centers and colocation facilities, ensuring reliability and efficiency for critical load components.




**Control Compartment**  
Dedicated area easily accessible and pre-wired with control compartments including BCMS modules, power supplies, terminal blocks for any breaker accessories, and HMI. Any of these accessories can be easily supported with our replacement parts program.




**Main Circuit Breaker**  
Our compartmentalized main breaker is shrouded with fastened trims and doors for dedicated access and safety. With a small frame footprint, our unit can support additional accessories such as auxiliaries, alarms, and wireway space in a compact structure.



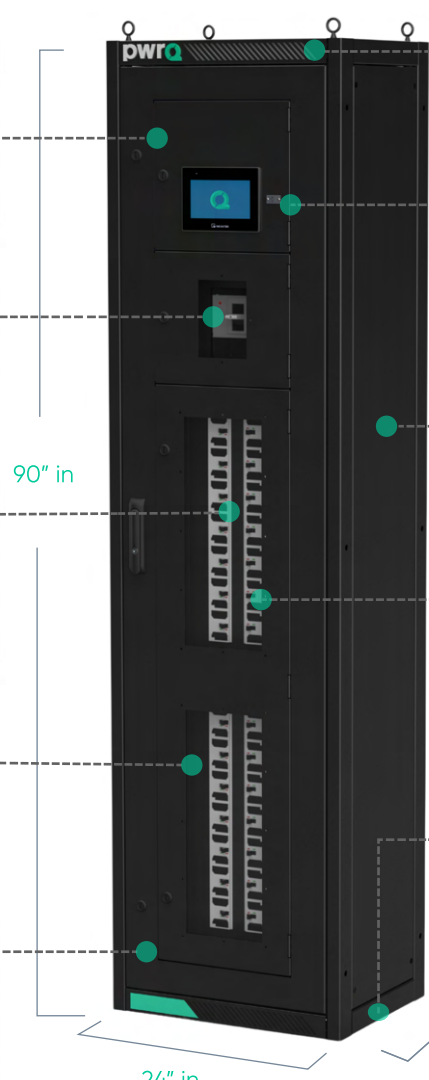
**Barriering**  
Our distribution interiors offer standard barriering along the main vertical buss, enhancing user safety, improving maintainability, and reduced arc flash risk with enhanced safety features.



**Transparent View**  
Standard clear windows are built into our custom doors for maximum visibility into the unit's many components while reducing the obligation to open or disrupt critical loads and service.



**Grounding**  
With multiple orientations and locations to mount ground bars provisioned into the structure, you are in control. Optimize your wireways so you can leave room where it matters and avoid congesting your structure with inefficient wire paths.




90" in

24" in


15" in

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

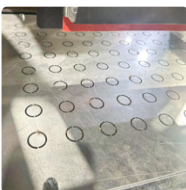


**External Programming Access**  
External ports allow for rapid serviceability and maintenance on HMI related tasks such as programming, viewing, or upgrading firmware.


**Hinged Side Access**  
Optional hinged side access reduces the complexity of handling multiple fasteners and trims.



**Branch Breaker**  
Multiple branch distribution setups available with minimal disruption to structure footprint and access. With branded offerings direct from ABB, Eaton, Schneider, and LS you're in control of price and availability.



**Top and Bottom cable entry**  
Using removable floor pans with laser cut pre-drilled knockouts, you can optimize your cable routes for clean and easily serviceable layouts. On the top we offer removable gland plates that can be easily pre-fabricated with conduit provisions and then reinstalled easily.



**Pedestals**  
Our in house manufactured pedestals allow you to match your RPP structure positioning with floor tiles and height constraints. With available side panels you can pre-design knockout schedules to match your cable layout and minimize time on site.



- A Single
- B Side-By-Side
- C Back-To-Back
- D Back-To-Back + Side by Side



# Technical Specifications: PwrQ RPP




RPP (Remote Power Panel): Technical Specifications

Product Model	RPP1	RPP2	RPP3
Input Voltage	3PH 4W 120/208Vac	3PH 4W 240/415Vac	3PH 4W 277/480Vac
Frequency	60Hz	60Hz	60Hz
Standard Connections	L1, L2, L3, N, G	L1, L2, L3, N, G	L1, L2, L3, N, G
Optional Connections	Isolated Ground	Isolated Ground	Isolated Ground
Maximum Main Input Current			
• 225A	X		
• 250A		X	X
• 400A	X	X	X
• 600A	X	X	X
Main Input Current Rating			
• 80%	X	X	X
• 100%	X	X	X
Maximum Short Circuit Rating Available			
• Fully Rated	65k	65k	65k
• Series Rated	65k / 22k	65k / 35k	65k / 35k
Number of Circuits			
• 42	X	X	X
• 84	X	X	X
Main Incoming Termination			
• Mechanical Lugs	X	X	X
• Compression Lugs	X	X	X
Main Cable Entry			
• Top Incoming	X	X	X
• Bottom Incoming	X	X	X
Branch Cable Exit			
• Top Outgoing	X	X	X
• Bottom Outgoing	X	X	X
UL489 Circuit Breaker Selection			
• ABB	XT Series ; THQB ; THHQB	XT Series ; TEY ; TEYD ; TEYH ; TEYL	XT Series ; TEY ; TEYD ; TEYH ; TEYL
• Eaton	PDG Series ; BAB ; QBHW	PDG Series ; GHB ; PDG	PDG Series ; GHB ; PDG
• LS	UTS Series ; UTE	UTS Series	UTS Series
• Schneider	QOB Series; EDB ; EGB ; EJB	PowerPact Series; EDB ; EGB ; EJB	PowerPact Series; EDB ; EGB ; EJB
Options			
100%   80%	Bell Alarms	Infrared Window	
Auxiliary	Isolated Ground		
Shunt Trips	SPD		

Power Monitoring Capabilities	Specifications
Data Protocols	Modbus TCP / IP (Ethernet) ; Modbus RTU (RS-485 2 wire) ; HTML (Web Server)
Modbus Serial Specifications	9600, 19200, 38400 Baud (Selectable)
Ethernet Ports	2 x RJ-45 10/100 Mbit
USB Port	USB 2.0 Type A
Web Server	HTML via Standard Web Browser
Wifi Option	802.11g/n ; Requires Wifi Option
Cellular Option	CAT1 / CAT M1 ; Requires Subscription
Accuracy	0.50 %
Sampling Rate	> 3 kHz
• Monitored Parameter (Per Circuit)	Current Max and Avg; Current Demand; Current Phase Angle; Voltage Phase Angle; kW per phase; kW Demand per phase; kW Demand Max; kWh per phase; Power factor; KVA; THDI; THDV; Waveform Capture; Circuit Health; Presence of Voltage; Ground Current
• Monitored Parameter (Per Load)	Current Max and Avg; Current Demand; Current Phase Angle; Voltage Phase Angle; kW per phase; kW Demand per phase; kW Demand Max; kWh per phase; Power factor; KVA; THDI; THDV; Waveform Capture; Circuit Health; Presence of Voltage; Ground Current; Voltage L-L; Voltage L-N Average and Per Phase



Get in touch with our sales engineering team

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