Modular Compact Remote Power Panel

Configurable. Flexible. Intelligent. Safe.

PDI Modular Compact Remote Power Panel

In 1999 PDI designed and brought to market the very first Remote Power Panel (RPP). Since then a multitude of RPP configurations have been engineered to meet the exact needs of our clients. The Modular Compact RPP follows in this tradition and brings with it a powerful combination of flexibility and modularity.

With over 150 possible configurations, the Modular Compact Remote Power Panel is the most versatile RPP on the market today. Its 12" x 24" footprint allows wall-mount, in-tile, on-tile and multi-unit configurations and can be field modified. When combined with Controls and High Voltage compartmentalization, BCMS Monitoring, Trapped Key Interlocking and multiple panelboards schemas the Modular Compact RPP can be adapted to the most demanding mission critical facilities.

Mission Critical
Modular Compact RPP

- *HIGHLY CONFIGURABLE PLATFORM* - The Modular Compact RPP is highly configurable with multiple wall and floor mount options including: Wall Mount – Single or Side by Side. Floor Mount – In-Tile or On-Tile as well as Side by Side, Back to Back, Back to Back and One Side and Back to Back and Two Sides. By utilizing a common 12" x 24" footprint the Modular Compact RPP can be configured and re-configured in the field.

- *FLEXIBLE PANELBOARD DISTRIBUTION* - The Modular Compact RPP is compatible with multiple panelboard manufacturers and styles which allows the end-user complete flexibility in the deployment and type of branch circuits. Classic and finger-safe panelboards are both available.

- *ISOLATED CONTROLS & HIGH VOLTAGE COMPARTMENTS* - In order to simplify maintenance and increase safety of operators the Modular Compact RPP features isolated Controls and High Voltage compartments within the main cabinet. Compartmentalized components include high voltage input breakers and panelboards as well as controls PCBs and Displays associated with the WaveStar® Branch Circuit Monitoring System (BCMS).

- *INTELLIGENT POWER MONITORING* - PDI's Branch Circuit Monitoring System (BCMS) allows for the pro-active management of power usage and availability ensuring maximum uptime and reliability. BCMS monitors server loads locally via a 7" Touchscreen Display or remotely by multiple open protocols including Modbus® RTU, Modbus® TCP/IP and SNMP. Power data includes Current, Voltage, Voltage L-L, L-N, kW, kVA, kVAR, kWh per panelboard, kWH per branch circuit and more.

- *FLEXIBLE MOUNTING* - The Modular Compact RPP was engineered with flexibility and modularity in mind. This one-size-fits-all approach enables operators to adapt the Modular Compact RPP to fit multiple specifications whether it be floor or wall-mount or single or multiple-unit configurations. This adaptability enables true in-the-field modification and extends the life-cycle of the product.

- *ADAPTABLE SERVICE ENTRANCES* - Every data center is different hence determining service entrance for line and load connections can vary from site to site as well as unit to unit. The Modular Compact RPP was engineered to be both Top/Bottom Entry/Exit for the ultimate in flexibility. The modularity of the unit allows for Entry/Exit panels to be changed in the field.

- *TRAPPED KEY INTERLOCKS* - Trapped Key Interlocks (Kirk Keys®) force the user to follow the correct sequence to switch power sources when using the Mission Critical Modular Compact RPP. The use of a sync-check relay as well as a make-before-break Kirk Key® Interlock system ensures the safe operation and maximum uptime of server loads.

- *TVSS/SPD SURGE PROTECTION* - Electrical surges and spikes can wreak havoc on sensitive mission critical servers and equipment. Protect these assets by utilizing optional fast acting TVSS (Transient Voltage Surge Suppressor) units in order to keep these servers and equipment from being damaged and protecting your data and IT investment.

Single 12" x 24"

Side by Side 12" x 48"

Back to Back
24" x 24"

Back to Back and
One Side - 24" x 36"

Back to Back and
Two Sides - 24" x 48"

Configurable.

Flexible.

Intelligent.

Safe.

Back to Back 24" x 24" mounts
on-tile and in-tile with standard
raised floor systems

PDI Modular Compact Remote Power Panel

Product Profile

Ratings
- Input/Output: 3-phase, 4-wire plus ground
- Input Voltage @ 50 Hz: 220V – 415V
  @ 60 Hz: 208V, 400V, 415V, 480V
- 200% neutral busbar connection

Safety Standards
- ETL Listed to UL and CSA standards

Mounting Options:
- Wall, Floor, In Tile, On Tile

Operating Conditions
- Storage Temperature: -67° to +185°F (-55° to +85°C)
- Operating Temperature: +32° to 104°F (0° to 40°C)
- Audible Noise: ≤ 45dBA
- Relative humidity: 0% to 95% non-condensing
- Operating Altitude: Up to 6,600 ft. (2,000m)

Monitoring
- Monitor: WaveStar® color touch monitor
- Communications: Serial RS-485 Modbus® RTU; Modbus® TCP/IP or SNMP communications

Distribution Panelboards/Sub-Feed Breakers
- Brands: SquareD, Schneider Electric, ABB
- Style: Classic, IEC, finger-safe
- Number of Poles: 36, 42, 48, 72, 84
- Amperage: 225A, 400A
- Voltage: Up to 480V

Testing
PDI is dedicated to providing customized solutions to meet the specific requirements of your app
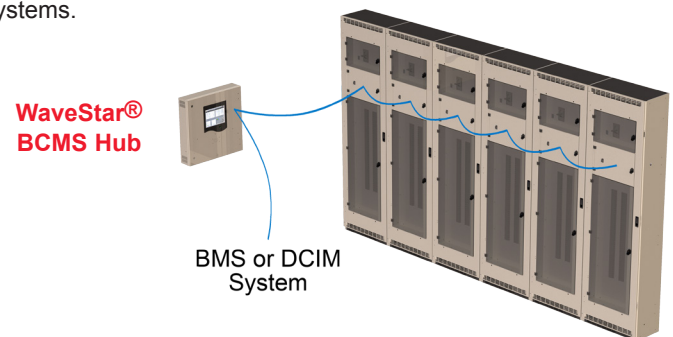
Customization
PDI is dedicated to providing customized solutions to meet the specific requirements of your application. Contact us at +1.800.225.4838 for further information and support.

PDI Service and Support
After your equipment has been installed, call on the PDI service team for 24/7 support. With 35 years of mission critical power experience and seasoned factory-trained service staff, PDI Global Services can maximize the benefit of your equipment investment.

Centralized WaveStar® BCMS Hub
PDI's WaveStar® BCMS Hub can collect information from down-stream BCMS-enabled power quality products in a data center. Installation does not have to be inside the data center room and can communicate via multiple protocols to BMS and DCIM Systems.

**WaveStar®
BCMS Hub**

BMS or DCIM
System

PDI

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