

Powersmiths RPP

Modular and compact remote power panels
with advanced monitoring features

from 42 to 164 circuits



Powersmiths RPP

Applications

- > Mission critical
- > IT / data centers
- > Commercial & industrial
- > Healthcare
- > Finance
- > Utility

Strong points

- > Tailored solution
- > Optimized configuration
- > Enhanced preventive maintenance
- > Safety first
- > Integrated best-in-class metering

Conformity to standards

- > UL 891 CSA 22.2
No. 244, File
E489575



Function

The **Powersmiths RPP** is highly configurable for a variety of panelboards, monitoring options, and preventative maintenance features. The RPP is available with voltage ratings of 208/120V, 415/240V, and 480/277V, with individual panelboard current ratings of 225, 250, and 400 Amps. Panelboard configurations include up to four (4) 42-circuit panels and up to two (2) 84-circuit panels. The RPP can be equipped with main panel monitoring, and branch circuit monitoring for current or full power. Surge protection options are available.

Advantages

Powersmiths modular configurable approach

- Enables tailoring to individual project requirements on a UL Listed platform
- Cost and delivery advantages associated with a standard product

The true front-only access

- Minimizes the installed footprint
- Leveraging the safer service and maintainability features

Best-in-class metering

- Using Socomec Digiware metering as standard (other if specified),
- Highest accuracy in the market: 0.5% at system level,
- Virtual monitor technology,
- Supporting data center application with energy efficiency management, electricity consumption analysis, and capacity planning.

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Standard communication feature

- Modbus RTU
- Modbus TCP/IP
- BACnet IP
- SNMP
- Webserver (optional)

Enhanced maintainability

- Front accessible
- Robust design
- Front accessible controls

Technical data

Input

| | |
|-----------------|---------------------------------------|
| Rated voltage | 208/120V, 415/240V or 480/277V |
| Rated frequency | 60/50 Hz |
| Number of phase | 3ph+G or 3ph+N+G |
| Feeds | Individual/Panel or common |
| Wiring | Bottom or top entry (per requirement) |

Output

| | |
|--------------------|--|
| Output panelboards | Up to 8 |
| Output circuits | Up to 168 (8*21) |
| Pannelbord type | 225/400A MB; 208/120V, Type NQ (Square-D) 250/400A MB; 600/347V, Type NF (Square-D) |
| Wiring | Bottom, conduit connection box or top with conduit connection box |
| Neutral | 100% or 200% |
| SPD | Up to 200kA/mode with Service Disconnect |

Metering

| | |
|-------------|---------------------------------------|
| Meter brand | Socomec Digiware or per specification |
|-------------|---------------------------------------|

Mechanical Characteristics

| | |
|-------------------|--|
| Nema | Type 1 |
| Temperature | Operating temperature: 0 to 40°C |
| Wiring | Wiring: braced, compression lugs (breakers/terminals excepted) |
| Dimensions | 24"W x 12"D or 24"W x 24"D |
| Dimensions/Weight | 450 to 650 lbs |

Standard

| | |
|---------------|--------|
| Certification | UL 891 |
|---------------|--------|

Power monitoring

- Instantaneous, average, min and max values
- Voltage unbalance
- Neutral current (measured or calculated)
- Fast metrology RMS values
- Breaker status
- Branch circuit monitoring

Power quality

- Harmonic analysis (THD/individual) up to 63rd / only THDs
- Power quality events (sags, swells, interruptions, overcurrents)

Service organization

- Powersmiths provides start-up and commissioning support services
- 24/7 service support for all of North America

