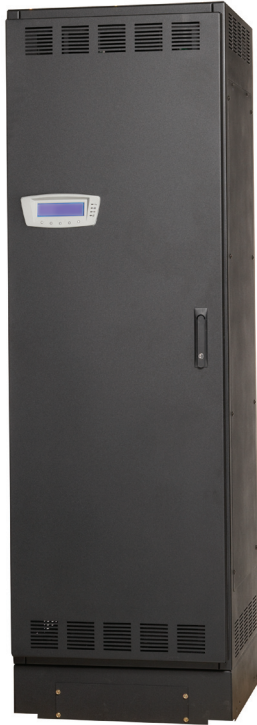# Remote Power Panel

Big Power in a Small Package

Your need for pole space continues to grow, and yet floor space comes at a premium. Eaton delivers the solution with the Eaton Remote Power Panel (RPP).

The RPP offers a customizable, scalable solution for expanding your data center power distribution efficiently and cost-effectively. One of the primary attractions of an RPP is that it provides increased distribution capacity in a small, compact design. The RPP is outstanding in this regard, delivering up to 168 factory-installed branch breakers in an impressively compact footprint: 24 inches wide by 24 inches deep.

The RPP can be placed at the end of isle or within an isle to help reduce cable costs. This feature decreases the length of cable runs between the RPP and your peripheral loads, eliminating clutter and further optimizing the use of expensive data center floor space.

As a standalone unit, the RPP can be retrofit to any existing distribution system, providing for easy expansion of power distribution in your data center. Moreover, it simplifies future expansion to meet increased load requirements for both single- or dual-cord equipment.

Made to Fit

The RPP is easy to install, with the unique feature of standard top and bottom cable-entry provision and a free-standing structure. Most other RPPs have to be configured for either top or bottom cable entry at the factory, whereas the RPP can be configured at the factory or by the user in the field. In fact, some competitor models don't provide top cable entry at all, eliminating the option of a non-raised-floor application. The advantage with the RPP is that the same RPP can be used for either a raised-floor or non-raised-floor application – flexibility that not only facilitates ease of installation but realizes cost savings.

Features

- Delivers unmatched power distribution with up to 168 factory installed branch breakers in a highly compact footprint
- Offers ease of installation through standard top and bottom cable entry provision and a free standing structure
- Extensive monitoring options such as the Eaton Energy Management System including branch circuit monitoring allow you to manage and monitor power effectively
- Factory-tested power distribution to ensure highest reliability
- Advanced monitoring helps capacity planning and avoid unexpected breaker tripping
- Allows easy and flexible expansion for your power distribution within a data center

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Easily accessible area for bottom cable entry - can be easily rearranged to allow for top entry.
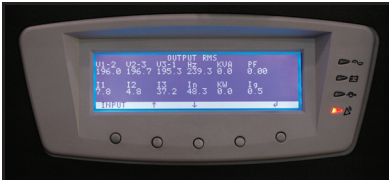
Power consumption trends for up to 23 months can be viewed through a history log - a powerful aid in capacity planning and diagnosis as events are time- and date-stamped as they occur.

Precision Pays

RPPs are equipped with the Energy Management System. The Energy Management System provides state-of-the-art monitoring and alarming provisions that allow the user to monitor power consumption and quality, manage and plan power needs, and react quickly to any potential problems down to the branch circuit level. Comprehensive connectivity options enable secure, remote power management, real-time system status information, and network connectivity with the optional Power Xpert® Gateway interface card. The latest technology is employed by the monitoring system, which includes an 8-line x 40-character LCD for clarity, a soft-key driven menu for ease of use, and audio/visual indicators that provide alarming and status updates.

Power consumption trends for up to 23 months can be viewed through a history log - a powerful aid in capacity planning. Custom alarm settings may be programmed at the factory, by the user, or by our service organization.

In addition, Eaton's optional branch circuit monitor within the Energy Management

System continuously measures the current on branch circuits and warns of impending trouble, so you can take proactive action. The branch circuit monitoring system assesses circuit activity 7x24 and provides time-stamped metering, alarm and statistical information for each branch circuit. You receive significant information that is needed to effectively manage your entire power distribution system. Armed with these insights, data center and facilities managers can more effectively manage energy consumption to prevent overload conditions, optimize power distribution, and when applicable, accurately bill internal customers for power usage.

Customized and Adaptable

The range of customization options for the RPP are a result of a combination of experienced and responsive engineers, skilled and knowledgeable assemblers and wiremen, and a strategic focus designed to meet each customer's specific needs. The bottom line is a highly sophisticated power distribution system tailor-made for customer specifications and requirements.
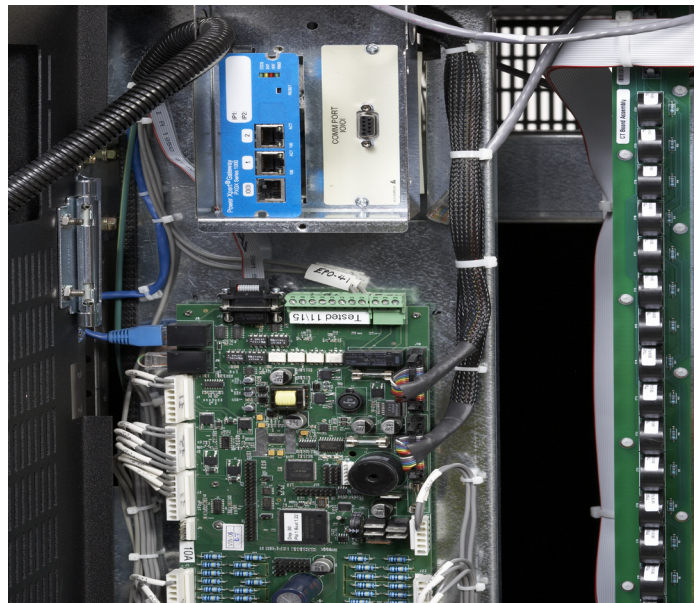
The two optional X-Slot cards offer many communication possibilities.

Quality Design & Convenience

• Freestanding structure

• Aesthetically pleasing: textured black to match UPS and PDU

• Spacious wireways for ease of installation

• Removable side panels

• Standard locking door latches

• Hinged interior and exterior doors for system serviceability

• Optional Plexiglas cover panels for breaker visibility

Reliability

The RPP is built according to the latest UL60950 standard for information technology equipment and is approved by the UL/CSA. It utilizes Cutler-Hammer® Series C circuit breakers, which employ the latest circuit breaker technology and have excellent industry interrupting ratings. Each RPP goes through extensive factory testing to ensure that it meets Eaton's exacting quality standards. Consistency is ensured, in that all key RPP components are Eaton manufactured.

Once the RPP unit is deployed, a high level of consistent support is maintained, ensuring that your system reliability is never compromised.

Superior Warranty and Service

For your peace of mind, the RPP is backed by our best-in-class service and support. Our service organization can provide start-up, warranty and post-warranty support for all the Eaton power products in a data center. These include:

• Startup and commissioning support

•Preventive maintenance packages

• Standard 7x24 coverage with eight-hour response

• Optional two- and four-hour response time
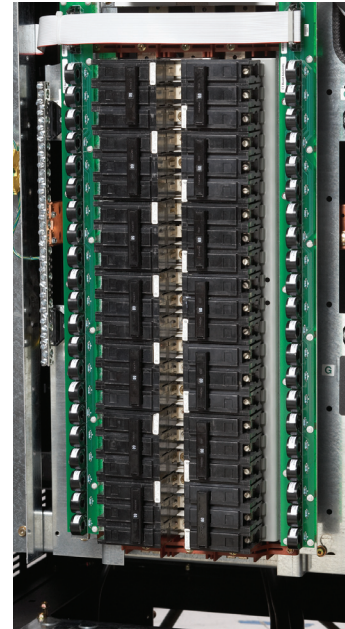
Uses quality Eaton Cutler-Hammer Series C circuit breakers - can be configured to accept higher kAIC rated breakers.

The quality design allows for front, top and bottom entry/exit and spacious wireways.

TECHNICAL SPECIFICATIONS[1]

Electrical Characteristics

Input ratings:	100A, 225A, 400A or 800A
Phase:	3Φ, 4 wire + G
Frequency:	60 Hz

Input Connection Options

Direct connection to panel board main breaker

Connection into main lug (up to 800A)

Connection into main breakers (100A, 225A, 400A)

Distribution

Up to 4 Cutler-Hammer 42 pole panel boards with 225A main breakers (2 front, 2 rear)

Factory-installed branch circuit breakers

Options

Multiple incoming options

High kAIC input breakers

TVSS (100 kA-200 kA)

Junction box

Isolated ground

Energy Management System

Branch circuit monitoring

Distribution cables (WHIPS)

Isolation barrier for Dual Source Inputs

Optional Plexiglas viewing window

Physical Characteristics

Size: 78"H x 24"W x 24"D

Energy Management System

Metered Values:
- Voltage: L-L
- Phase current
- Neutral current
- Ground current
- kVA, KW, Hz
- Total Harmonic Distortion (THD)
- Power factor / phase
- Percent load / phase
- Load Profiling
- Min & Max V, I, Hz, KW recorded over a four hour period
- Captures highest reading on monthly basis, with trend information over last 23 months

Alarms

Over-and under-voltage (input & output)

High current (Three-phases, N, G)

Phase rotation (input & output)

Phase loss

Building alarms (Two-programmable)

Voltage THD

Current THD

Over/Under frequency

Output overload (3-Levels)

Modem call

Connectivity

Modbus

Modem

Optional Power Xpert® Gateway card for network interface

1. Due to continuing product improvement programs, specifications are subject to change without notice.
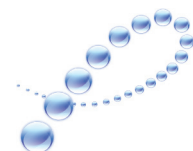
PowerChain Management®

UNITED STATES
8609 Six Forks Road
Raleigh, NC 27615 U.S.A.
Toll Free: 1.800.356.5794

www.eaton.com/powerquality

CANADA
Ontario: 416.798.0112
Toll free: 1.800.461.9166

LATIN AMERICA
South Cone: 54.11.4124.4000
Brazil: 55.11.3616.8500
Andean & Caribbean:
1.949.452.9610
Mexico & Central America:
52.55.9000.5252

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