

Simple, centralized protection in a compact footprint



Featuring PRL1X and 2X dual sub-feed panelboards

Eaton's Pow-R-Line 1X and 2X dual sub-feed panelboards are designed to optimize power distribution systems by decreasing electrical equipment footprint and consolidating protection devices within a single enclosure. As one of Eaton's latest power management innovations, the new panelboards enable two branch devices rated from 100 A through 225 A to safely feed downstream electrical equipment—such as a transformer or other protection device—empowering the user to get more capability out of a single panelboard while optimizing physical footprint.



Powering Business Worldwide

Key features and benefits

Enhanced safety

- Eliminate the danger of sharp edges with painted chassis components and corners
- Reduce accidental damage with the structural integrity of a reinforced deadfront bracket design
- Minimize potential risk through laser-cut trims that eliminate sharp edges and burrs while ensuring a consistently accurate fit

Improved installation efficiency

- Achieve easy wiring compartment access with only four deadfront cover screws
- Reduce complexity with QuaDrive screws that allow installers to use preferred tools
- Facilitate installation in dimly lit work areas with reflective white branch breaker insulation

Industry proven reliability

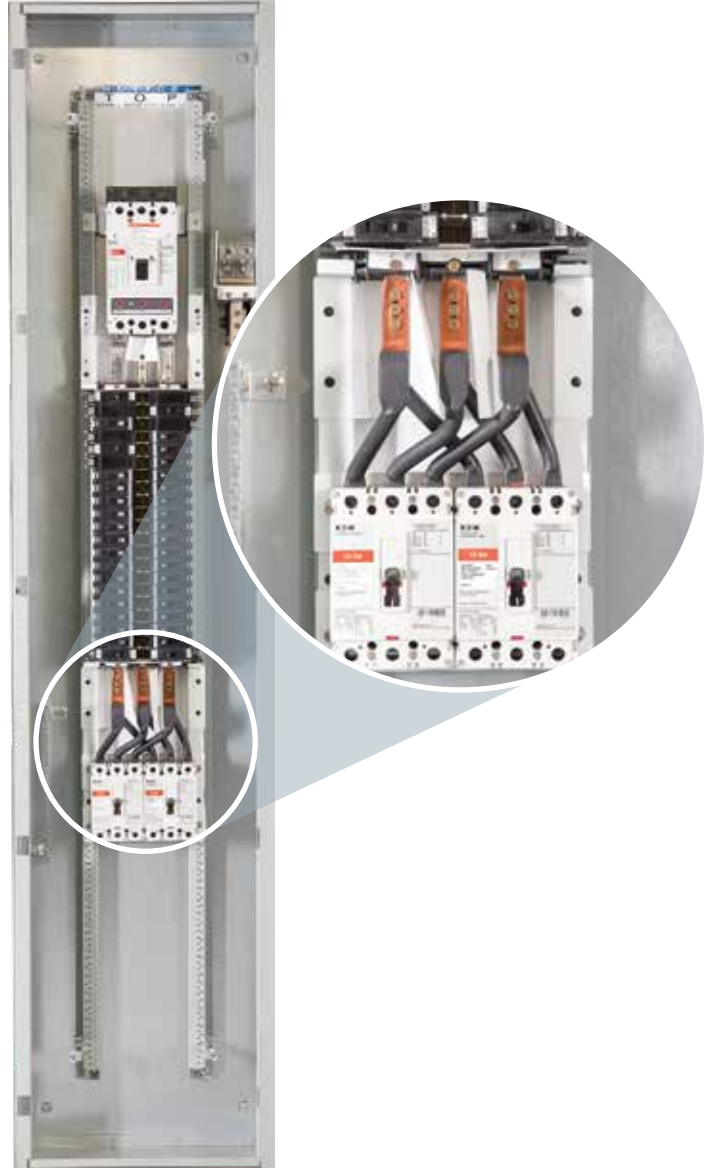
- Provides compliance with CSA C22.2 No. 29 and No. 94.1
- Tested and qualified to meet the seismic requirements of International Building Code (IBC)



PRL1X chassis provision

Typical applications

An example application for the PRL1X/PRL2X dual sub-feed panelboard would be to distribute two loads between 100 A and 225 A downstream, such as another panelboard or transformer. For transformer protection, a 225 A sub-feed circuit breaker can provide protection for up to a 75 kVA transformer at 208 V primary side or up to a 150 kVA transformer at 480 V primary side. This feature enhancement enables the user to gain more capabilities and space savings out of a single PRL1X/PRL2X panelboard.



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Technical specifications

PRL1X and PRL2X characteristics

Description	Rating
Pow-R-Line 1X	
Voltage	240 Vac maximum
Main breaker	100–600 A
Main lug	100–600 A
Maximum kAIC	10–22 kA fully rated 22–200 kA series rated
Branch circuit breaker	15–100 A
Branch breaker connector	140 A
Branch circuit breaker types	BAB, BAB-H, QBH (QBHW, QBHW-H), QBGFT, QBGFEP, QBHGFT, QBHGFEP, HQP, QPHW, QHPX, QPGF, QPHGF, QPGEP, QPHGFEP, BABR, QBAF, QBAG, QBHAF, QBCAF and QBHCAF
Sub-feed breaker types	225 A Frame PDD2xG, PDD2xF, PDD2xM, PDG2xG 250 A Frame JD 400 A Frame PDD3xG, PDG3xG* 600 A Frame PDG3xG*, PDG3xM*, PDG3xP*
Dual sub-feed breaker types	PDD2xG, PDD2xF, PDD2xM, PDG2xG
Pow-R-Line 2X	
Voltage	240 Vac, 480Y/277 Vac, 600Y/347 Vac and 125/250 Vdc maximum
Main breakers	100–600 A
Main lug	100–600 A
Maximum kAIC	240 Vac 65 kA fully rated 65–200 kA series rated 480Y/277 Vac 14 kA fully rated 22–150 kA series rated 600Y/347 Vac 10kA full rated 18-35 kA series rated 125/250 Vdc 10–14 kA fully rated
Branch circuit breaker	15–100 A
Branch breaker connector	140 A
Branch circuit breaker types	GB, GHB, GHBFEP, GHBS, HGHB, GQ, GHQ, GHQRS and GHQRSP
Sub-feed breaker types	225 A Frame PDG2xG, PDG2xM 250 A Frame JD, HJD 400 A Frame PDG3xG*, PDG3xM* 600 A Frame PDG3xG*, PDG3xM*, PDG3xP*
Dual sub-feed breaker types	PDG2xG, PDG2xM ①

① 225 A maximum frame amperage for dual sub-feed breakers.

NEMA enclosure options

The dual sub-feed panelboard is available in various types of NEMA enclosures, including: Type 1, 2, 3R, 4, 4X and 12. Optional 28-inch wide boxes are also available for applications that require additional space for cable bending.

Dimensions in inches (mm)

- Heights
 - 48 (1219.2)
 - 60 (1524.0)
 - 72 (1828.8)
 - 90 (2286.0)
- Widths A
 - 20 (508.0) standard
 - 28 (711.2) optional
- Depth
 - 5.75 (146.1) A
- Dimensions for NEMA Type 1 enclosure. For dimensions of optional NEMA enclosure, contact your Eaton distributor or sales engineer.



Unique deadfront bracket design



Laser-cut trims

Factory-installed modifications and accessories

Each Pow-R-Line 1X and 2X panelboard is assembled by an experienced technician who can easily and efficiently incorporate any combination of modifications and accessories. Below is a list of accessories we offer with the dual sub-feed PRL1X and PRL2X panels:

- Breaker lock-off devices
- Compression type lugs (main only)
- Ground fault breakers
- Arc fault breakers
- Increased dimensions
- Trim to fix existing boxes
- Main breakers with solid-state trip units
- Permanent circuit numbering
- Service entrance
- Special trims and locks
- Surge protection devices
- Integrated metering

Note: Contact your local Eaton distributor or sales engineer for additional information on these and other modifications and accessories.



Please visit your local satellite facility for more information.

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To learn more,
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