

Dimensions of Dual-Port Information Panel for Private Power Grid



Overview

Dimensions of Dual-Port Information Panels for Intelligent Dual voltages and polarities can be supported on a single panel, useful for sites requiring -48.

Key Takeaways

Dual-Port Information Panels typically follow standard panelboard dimensions, with cutouts for dual D-Sub connectors ranging from DB9 to DB50, and overall panel sizes varying by amperage and mounting style. Panelboard Dimensions

For private power grid applications, dual-port information panels are often based on standard panelboard enclosures. Typical dimensions depend on the number of circuits, amperage rating, and whether the panel is surface-mounted or flush-mounted. For example, Eaton PRL4X and PRL4D panelboards provide:

- Height: 24-72 inches (610-1829 mm) depending on the number of sections
- Width: 12-36 inches (305-914 mm) for single or multiple sections
- Depth: 4-8 inches (102-203 mm) for standard enclosures
- Breaker spacing: 1 inch per pole for standard branch breakers, with two-pole or three-pole breakers accommodated horizontally These panels are UL 50 listed, painted ANSI-61 light gray, and can support main breakers from 20 A to 600 A in drawout or bolt-on configurations .

Dual-Port Connector Cutouts

For the information interface, dual-port D-Sub connectors are commonly used. NorComp provides standard panel cutouts for dual-port D-Sub connectors:

- DB9 (HD15), DB15 (HD26), DB25 (HD44), DB37 (HD62), DB50 (HD78)
- Cutouts are designed to accommodate IP67-rated connectors if environmental sealing is required
- Mounting holes and spacing follow standard D-Sub specifications, allowing secure attachment to the panel front

Mounting and Installation Considerations

- Panels can be surface-mounted or flush-mounted, with options for screw-to-box, hinge-to-box, or door-in-door fronts
- Total panelboard weight varies with the number of breakers and accessories installed
- Clearance for wiring and ventilation should be considered, especially for high-amperage or multi-section panels

Summary

While exact dimensions depend on the manufacturer and model, a typical dual-port information panel for a private power grid will have:

- Height: 24-72 inches
- Width: 12-36 inches
- Depth: 4-8 inches
- Dual D-Sub cutouts: DB9 to DB50, IP67 options available
- Mounting: Surface or flush, with standard UL-listed enclosures For precise dimensions, it is recommended to consult the manufacturer's datasheet for the specific model, as panel height, width, and cutout layout can vary based on amperage, number of circuits, and environmental requirements .

Article Content

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

