

Dimensions of a 48-circuit distribution box



Article Overview

A typical 48-circuit distribution box has dimensions around 800 × 600 × 300 mm, though exact sizes vary by manufacturer and model.

Typical Dimensions

For wall-mounted 48-circuit distribution boxes, manufacturers often follow standard modular sizes. For example, Schneider Electric's DBV348MS 48-module distribution board is designed to accommodate 48 circuit breakers and has a modular layout suitable for a 125A incomer, though the exact external dimensions should be confirmed from the technical datasheet . In general, wall-mounted enclosures for 48 circuits range from approximately 800 mm in height, 600 mm in width, and 300 mm in depth . These dimensions provide sufficient space for wiring, cable entry, and future expansion.

Considerations for Selection

- **Mounting Type:** Wall-mounted boxes are common for residential and commercial use, while freestanding cabinets may be used in industrial settings. Freestanding cabinets can be taller (1600–2200 mm) and wider (600–1800 mm) depending on the number of circuits .
- **Internal Layout:** The usable internal space is slightly smaller than external dimensions due to wall thickness, hinges, and bus bar placement .
- **IP Rating:** For outdoor or harsh environments, distribution boxes may have IP41 to...

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