

Wall-mounted electrical distribution box dimensions models and specifications

Article Overview

Wall-mounted electrical distribution boxes typically range from 200x200x120 mm to 800x600x300 mm, with materials, IP ratings, and mounting features varying by model and manufacturer.

Typical Dimensions and Sizes

Wall-mounted distribution boxes are available in a variety of sizes depending on the application. Common dimensions for residential and commercial use range from 200 x 200 x 120 mm up to 800 x 600 x 300 mm for plastic or metal enclosures . Specific product examples include:

- o PCE Wall Mounted Distribution Box: 350 x 210 x 150 mm, solid rubber housing, IP54 protection .
- o Metal IP65 Box: 300 x 200 x 150 mm, suitable for higher protection against dust and water ingress .

Material and Construction

- o Plastic enclosures: Lightweight, durable, and often feature a hinged transparent cover for easy inspection .
- o Metal enclosures: Provide higher mechanical strength and can achieve IP65 protection, suitable for harsher environments .
- o Rubber or solid rubber housings: Offer additional impact resistance and IP54 protection .

Mounting and Design Features

- o Wall-mounted style: Boxes are designed for secure attachment to walls, with mounting studs or brackets for easy installation .
- o Hinged covers: Allow quick access to internal components without removing the entire cover .
- o Cable entry options: Threaded cable glands (e.g., M20, M25) or removable gland plates for top/bottom entry .
- o Internal layout: Space for circuit breakers, MCBs, RCCBs, or busbars, with modular DIN rail compatibility .

Protection and Utility

- o IP ratings: Commonly IP54 (protection against dust and splashing water) or IP65 (dust-tight and water jets) depending on the model .
- o Protective functions: Overload and short-circuit protection, secure busbar and terminal shrouding .
- o Recommended environment: Indoor use for residential or commercial applications, with some models suitable for light industrial settings .

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Summary

When selecting a wall-mounted electrical distribution box, consider:

- o Dimensions: Ensure sufficient space for internal components and wiring.
- o Material: Plastic, metal, or rubber depending on durability and environment.
- o IP rating: Match protection level to exposure conditions.
- o Mounting and access: Hinged covers, cable entry options, and DIN rail compatibility.
- o Internal layout: Adequate space for circuit breakers, busbars, and future expansion.

These specifications ensure safe, organized, and efficient electrical distribution for residential, commercial, or light industrial installations .

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