

Article Overview

A 6-space distribution box is an electrical enclosure designed to safely distribute low-voltage power across six circuits, suitable for residential, commercial, or industrial use.

Overview

A 6-space distribution box (also called a breaker box or panel) is designed to house six circuit breakers or switches, providing organized and safe power distribution from a single incoming supply to multiple outgoing circuits . These boxes are commonly used in residential, commercial, and light industrial installations and can be customized according to voltage, amperage, and environmental requirements .

Materials and Construction

Distribution boxes are typically made from high-strength ABS, polycarbonate, or metal (stainless steel or cold-rolled steel) to ensure durability and electrical safety . They often feature:

- o IP protection ratings (IP65-IP66) for dust and water resistance, suitable for indoor and outdoor use .
- o DIN rail mounting for easy installation of circuit breakers and modular components .
- o Hinged or screwless covers for convenient access and maintenance .
- o Grounding bars and knockouts for cable entry .

Types and Features

- o Indoor Main Lug Boxes: Designed for indoor use, often with surface-mounted covers and grounding bars. Example: BR 125 Amp 6-Space 12-Circuit Indoor Main Lug Surface Cover .
- o Industrial Enclosures: Made of polycarbonate or ABS, resistant to impact and extreme environments, sometimes with transparent windows for monitoring instruments .
- o OEM/ODM Custom Boxes: Can be manufactured according to specific drawings, including plug-in designs, hydraulic-tested for quality, and suitable for residential or light industrial applications .

Applications

- o Residential: Distributing power to lighting, outlets, and small appliances.
- o Commercial: Managing circuits for offices, shops, or small industrial units.
- o Industrial: Housing control equipment, battery boxes, or high-voltage connections in a safe, modular enclosure .

Selection Considerations

Distribution box 6 square meters

When choosing a 6-space distribution box, consider:

- o Amperage rating (e.g., 125A or 63A) to match your electrical load.
- o Material and IP rating for indoor or outdoor installation.
- o Mounting type (wall-mounted, surface-mounted, or DIN rail).
- o Future expansion: Some boxes allow additional modules or slots for extra circuits.
- o Compliance: Ensure the box meets local electrical codes and safety standards . A 6-space distribution box provides a compact, safe, and modular solution for managing multiple electrical circuits efficiently, with options ranging from standard residential panels to robust industrial enclosures.

The Legrand Increased Safety distribution solutions offer an innovative response to service continuity requirements by providing a

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find

The distribution box acts as the center of power distribution, distributing electricity to all connected devices. A

What to Look for When Choosing a Distribution Box If you're going to buy a distribution box, there are several things

Breaker boxes house circuit breakers for system protection. View products for reliable residential and light

The power distribution boxes deliver electricity from the main electrical main to other circuits. Several distribution boxes

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Distribution box 6 square meters

distribution in a multiple box

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