

Electrical distribution box with mounting box



Article Overview

An electrical distribution box mounting box is a protective enclosure that houses circuit breakers, fuses, and bus bars, ensuring safe and organized power distribution while allowing proper installation and maintenance.

Overview

A distribution box, also called a DB box, breaker box, or electrical panel, is the central hub of an electrical system. It receives power from the main supply and distributes it to multiple circuits, each protected by circuit breakers or fuses, preventing overloads and short circuits. The mounting box is the physical enclosure that supports and protects these components, providing a safe and accessible installation point.

Components

Typical components inside a distribution box include:

- Main Switch/Breaker: Controls the entire electrical supply to the box, allowing full disconnection during maintenance.
- Circuit Breakers: Protect individual circuits from overcurrent or short circuits.
- Residual Current Circuit Breaker (RCCB): Provides additional safety by detecting leakage currents.
- Bus Bars: Conduct electricity to multiple circuits efficiently.
- Indication Lights: Show the status of mains power supply

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