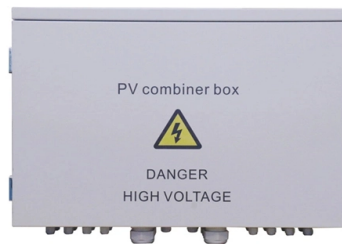


Well-known electrical distribution boxes



Article Overview

Electrical distribution boxes, also known as DB boxes or breaker panels, are central hubs that safely distribute electricity from a main supply to multiple circuits in residential, commercial, and industrial settings.

Overview

A distribution box is a protective enclosure that houses circuit breakers, fuses, and bus bars, ensuring safe and organized power distribution while preventing overloads and short circuits. They are essential for both safety and efficient energy management, and modern smart DB boxes can include energy monitoring and remote control features.

Common Types of Distribution Boxes

- **Main Distribution Board (MDB)** Acts as the central hub for distributing electricity to various sections of a building or industrial unit. It includes bus bars, MCCBs, and other support equipment to manage load and prevent overloading.
- **Sub Distribution Board (SDB)** Transfers electricity from the main board to specific areas like garages, parking lots, or individual floors. It simplifies control over multiple circuits.
- **Consumer Unit** Typically used in residential settings, it contains miniature circuit breakers (MCBs) and residual current devices (RCDs) for household safety.
- **Meter Panel** Houses electricity meters and may include protective devices for monitoring and billing purposes.
- **Panel Fuse Bank** Contains fuses for circuit protection, often used in older installations or specialized industrial applications

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