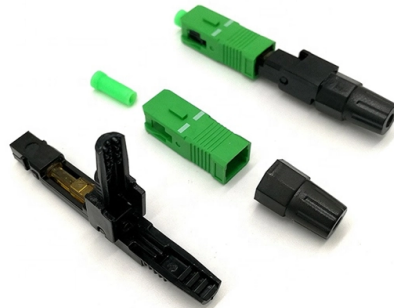


Two types of complete electrical distribution boxes



Article Overview

Electrical distribution boxes come in various types, including main distribution boards, sub-distribution boards, meter panels, consumer units, and smart distribution boxes, each designed for specific applications and load capacities.

Main Types of Distribution Boxes

1. **Main Distribution Board (MDB)** The MDB serves as the central hub for distributing electricity to various sections of a building or facility. It typically includes a freestanding enclosure, bus bars, MCCBs (Molded Case Circuit Breakers), and other support equipment. MDBs handle high loads and provide protection against overcurrent and short circuits, making them essential for industrial and large commercial installations .
2. **Sub-Distribution Board (SDB)** SDBs are secondary panels that receive power from the MDB and distribute it to specific areas, such as residential units, garages, or parking lots. They simplify control and maintenance by localizing circuit management and often include MCBs (Miniature Circuit Breakers) and protective devices .
3. **Meter Panel** Meter panels house electrical meters to monitor energy consumption. They include primary switches, fuses, and circuits, and are commonly used in residential and commercial buildings to track electricity usage for billing purposes .
4. **Consumer Unit** Consumer units are compact distribution boxes used in homes and small offices. They contain MCBs, RCCBs (Residual Current Circuit Breakers), and sometimes surge protection devices. These units ensure safety by interrupting power during faults and organizing circuits efficiently .
5. **Panel Fuse Bank and Unitized Panels** These boxes are designed for specific industrial or comme...

Article Content

What Is an Electrical Distribution Box? A Complete Guide

An electrical distribution box is a centralized unit responsible for distributing electrical power across multiple circuits within various

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A distribution box ensures that electrical supply is distributed in the building, also known as a distribution board, panel board, breaker

Distribution Boards

Distribution boards, often referred to as electrical panels or breaker boxes, serve as the nerve center of any electrical system. Here

Distribution Box and Selection Guide: Internal Structure, Components ...

A distribution board usually refers to the complete electrical assembly for distributing circuits. A distribution box may

Electrical Distribution Boxes: Types, Uses & Selection Guide

Learn how electrical distribution boxes work, their key components, common types, and how to choose the right enclosure for safe

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For more information, pricing, or custom solutions, please contact us:

Website: <https://gmarkconstruction.co.za>

Email: sales@gmarkconstruction.co.za

Phone: +31-6-15-38-72-94

Address: Herengracht 456, 1017 BS Amsterdam, Netherlands

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