

Shopping Mall Main Distribution Box Model and Specifications



Overview

Main Distribution Board (MDB) for Retail & Shopping Malls Explore reliable Main Distribution Boards for retail stores and shopping malls, designed for safe.

Key Takeaways

Shopping mall main distribution boxes are high-capacity, customizable electrical panels designed for safe, reliable, and intelligent power distribution, with rated currents typically ranging from 800A to 5000A.

Key Specifications

Rated Current and Voltage:

- Typical main distribution boxes for malls have rated currents from 800A to 5000A, depending on the total load of the facility, with voltage support ranging from 220V to 480V for global compatibility .
- The main switch is usually a MCCB (Molded Case Circuit Breaker) with high breaking capacity ($\geq 35\text{kA}$) to handle short-circuit surges, while branch circuits use MCBs or contactors depending on load type . Construction and Protection:
- Cabinets are made from stainless steel or aluminum, offering high durability and protection grades up to IP56, suitable for harsh environments .
- Integrated safety features include overload protection, short-circuit protection, leakage protection, and overvoltage protection .

- Fire linkage and emergency power switching (ATS) ensure critical circuits like fire pumps and emergency lighting remain operational during emergencies . Functional Features:

- Surge Protection Devices (SPDs) safeguard sensitive equipment from lightning or grid fluctuations .

- Intelligent monitoring systems allow real-time tracking of electrical parameters, temperature, and fault detection, often with remote access via mobile or computer interfaces .

- Modular designs facilitate easy maintenance, cost-effectiveness, and scalability .

Types and Configurations:

- Fixed cabinets: Suitable for simple distribution lines.

- Drawer-type cabinets: Allow easy repair and replacement for complex layouts.

- Power-controlled cabinets: Manage motor start/stop/reverse operations.

- Combined cabinets: Integrate multiple functions for high-power distribution requirements . Customization Options:

- Dimensions, color, and internal layout can be fully customized to match project requirements and branding .

- Manufacturers often provide turnkey solutions, including planning, installation, and after-sales support . Certifications and Compliance:

- Common certifications include ISO9001, VDE, CCC, CE, ensuring global safety and quality standards .

Example Models

- Nancome Main Distribution Board: Rated up to 5000A, IP56, stainless steel, customizable dimensions and color, with overload protection and wide voltage range .

- StarDynamic 800A Distribution Cabinet: Includes surge protection, fire linkage, ATS for emergency power, modular design, and intelligent monitoring .

- High-Efficiency Intelligent Cabinet: Features real-time temperature adjustment, early fault warnings, and remote management capabilities . These specifications ensure that shopping mall distribution boxes provide reliable, safe, and efficient power management for large commercial facilities, accommodating both standard and emergency power needs.

Article Content

How to Install a Cable Distribution Box Safely and Correctly?

In modern electrical systems, cable distribution boxes (also known as electrical distribution boxes or distribution

Main Distribution Box

The Main Distribution Box (MDB) is the heart of the Global IFS Cable System Modular Wiring System. It provides power to the Floor

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

