220V Distribution Box Model

Overview

18 Way 220v DB MCB Distribution Box, MCB DB Box 18 ModelFutina FTAMG series 18 model mcb box, with plastic panel and iron box, and the color for the box ca.

Key Takeaways

220V distribution boxes are electrical enclosures designed to safely distribute AC power across multiple circuits, available in single-phase and three-phase models with various safety and environmental features.Overview

A 220V distribution box functions as a central hub to manage and distribute electrical power from a 220V AC source to multiple outlets or circuits. These boxes are widely used in residential, commercial, and industrial environments to ensure safe and efficient power delivery to appliances, tools, and machinery . They typically include circuit protection features such as overload protection, short-circuit protection, and sometimes surge protection, which are essential for preventing electrical hazards .

Common Specifications
• Voltage Rating: 220V AC, with some models supporting 220–380V or 240–415V for industrial versatility .

• Current Rating: Varies by model; common ratings include 16A–32A for single-phase boxes and higher for three-phase units .

• Phases: Single-phase (commonly for residential or light commercial use) and three-phase (for industrial or high-power applications), .

• Protection Level: IP44–IP66 for water and dust resistance, suitable for outdoor or harsh environments .

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• Materials: Durable ABS plastic, aluminium, or cold-rolled carbon steel, often powder-coated or galvanized for corrosion resistance .

• Safety Features: Built-in circuit breakers, main switches, grounding terminals, indicator lights, and sometimes switchable outlets .

Popular Models and Types

• Single-Phase Rack Mount Boxes: Typically feature 6 channels, 32A input/16A output, IP44 protection, and main switch air breakers. Ideal for industrial, entertainment, and live show applications .

• Three-Phase 220V Boxes: Designed for commercial and industrial use, offering efficient power distribution, overload protection, and compact wall-mountable designs .

• Portable Waterproof Boxes: AC 220–380V or 240–415V models with handles and multi-socket configurations, suitable for construction sites, outdoor events, or temporary installations .

• High-Demand 50A/250V Boxes: NEMA 14-50R receptacle enclosures with ETL/UL listing, IP66 weatherproofing, and compatibility with EV chargers, generators, or welding machines .

Applications

• Residential: High-power appliances, EV chargers, and home workshops.

• Commercial: Offices, outdoor events, and temporary installations.

• Industrial: Factories, construction sites, agricultural facilities, and high-current machinery setups.

Key Considerations

• Portability vs. Fixed Installation: Portable boxes are plug-and-play, while fixed panels require professional installation.

• Environmental Protection: Choose IP-rated enclosures for outdoor or wet conditions.

• Current and Voltage Requirements: Match the box rating to the load to prevent overloads.

• Safety Compliance: Look for ETL/UL listings or equivalent certifications for reliable operation. 220V distribution boxes provide a versatile, safe, and efficient solution for managing electrical power across multiple circuits, with models tailored for different environments, load capacities, and installation needs .

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The application industries of electrical distribution box include: 1. Utilities: Electrical distribution boxes are used in the utility industry

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

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