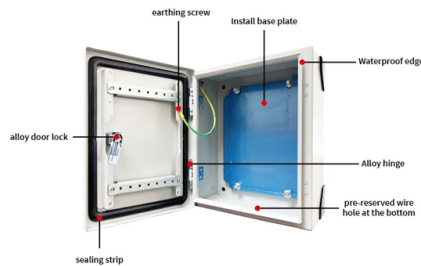


Commonly used models of distribution boxes



Overview

12 types of distribution boxes and how to choose themIn this guide, we'll break down the 12 main types of distribution boxes in a way that's easy to unders.

Key Takeaways

Distribution boxes come in various models, including main, sub, single-phase, three-phase, indoor, outdoor, and specialized types for lighting or control applications.Primary Types by Function

- Main Distribution Box (MDB): Receives power from the main supply and distributes it to multiple circuits. Common in homes, offices, and factories, often equipped with circuit breakers and safety devices for overload protection .
- Sub Distribution Box (SDB): Receives power from the main box and distributes it to specific areas or floors, reducing long cable runs and improving system flexibility .
- Industrial Distribution Box: Designed for harsh environments, capable of handling high loads, dust, moisture, and vibration, often with reinforced casings .

Types by Phase and Load

- Single-Phase Distribution Boxes: Suitable for residential properties and small commercial loads, powering lights, fans, and small appliances .

- **Three-Phase Distribution Boxes:** Used in industrial and large commercial facilities requiring higher power capacity, supporting heavy machinery and large equipment .
Types by Installation and Environment

- **Indoor Distribution Boxes:** Installed in protected environments like homes, offices, or utility rooms, where exposure to weather is minimal .

- **Outdoor Distribution Boxes:** Built for exposed environments, with strong enclosures and appropriate IP ratings to resist rain, dust, and temperature changes .

- **Surface-Mounted Boxes:** Mounted directly on walls, ideal for retrofits and industrial settings .

- **Flush-Mounted Boxes:** Embedded into walls for a clean, aesthetic appearance, commonly used in residential and commercial buildings .

- **Pole-Mounted Boxes:** Designed for outdoor utility applications, such as street lighting .

Specialized Distribution Boxes

- **Lighting Distribution Boxes:** Dedicated to managing lighting circuits with protective devices .

- **Power Distribution Boxes:** Support sockets, equipment, and heavy machinery .

- **Control Distribution Boxes:** Integrate control components like relays, contactors, and timers for automation or specialized control systems .

Material-Based Variants

- **Metal Distribution Boxes:** Offer higher mechanical strength and durability, suitable for industrial and commercial applications .

- **Plastic Distribution Boxes:** Lightweight and corrosion-resistant, often used in residential or less demanding environments . Choosing the right distribution box depends on installation environment, electrical load, number of circuits, phase type, and required protection rating, ensuring safety, efficiency, and compliance with electrical standards .

Article Content

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