

A complete list of electrical distribution box models and types



Overview

Electrical Distribution Box: Complete Panel Types Learn what an electrical distribution box is in simple terms. Complete guide to panel types, Distribution.

Key Takeaways

Electrical distribution boxes come in various models, including Main Distribution Boards (MDBs), Sub Distribution Boards (SDBs), consumer units, and specialized boxes for lighting, power, and control applications. Key Distribution Box Models



1. Main Distribution Board (MDB) The MDB is the primary control panel for a building or facility, receiving high-voltage power from the utility and distributing it to sub-distribution boards and major loads. It is commonly used in large commercial buildings, industrial plants, and high-rise residential complexes, and typically contains main breakers, busbars, and outgoing feeders . 2. Sub Distribution Board (SDB) SDBs receive power from the MDB and distribute it to smaller circuits within a building. They are widely used in commercial and residential settings to manage localized electrical loads . 3. Consumer Unit Also known as a fuse box or breaker panel, consumer units are common in residential properties. They house circuit breakers or fuses to protect individual circuits and often include residual current devices (RCDs) for safety . 4. Meter Panel Meter panels integrate electricity meters with protective devices, allowing monitoring and control of power consumption in residential or commercial buildings . 5. Panel Fuse Bank and Unitized Panels These models are used in industrial or specialized applications where multiple fuses or modular units are required for circuit protection and control . 6. Transfer Switch Transfer switches are critical in facilities requiring backup power, enabling safe switching between utility and generator power . 7. Specialized Distribution Boxes

- Lighting Distribution Boxes: Manage lighting circuits with dedicated protection.
 - Power Distribution Boxes: Support sockets, equipment, and heavy machinery.
 - Control Distribution Boxes: Integrate relays, contactors, and timers for automation and control systems .
- Mounting and Material Variants
- Surface Mounted: Installed directly on walls, suitable for retrofits and industrial environments.
 - Flush Mounted: Embedded into walls for a clean appearance, common in residential and commercial buildings.
 - Pole Mounted: Designed for outdoor use, such as street lighting or utility applications .
 - Material Options: Metal boxes are used for industrial durability, while plastic boxes are lightweight and corrosion-resistant, ideal for residential or light commercial use .
- Phase and Application Considerations

- Single Phase DB Boxes: Suitable for residential and small commercial loads.
- Three Phase DB Boxes: Used in industrial and large commercial facilities requiring higher power capacity . These models cover a wide range of applications, from small homes to large industrial plants, ensuring safe and organized power distribution while protecting circuits and equipment.

Article Content

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Discover 10 types of distribution boards, from Main Distribution Boards to Fuse Boxes. Learn

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This ultimate guide explains what a distribution box does, its internal components, common types, real

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In this guide, we'll break down the 12 main types of distribution boxes in a way that's easy to understand. We'll chat

What are the types of distribution boxes?

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This document provides a list of components in an electrical distribution box with their names and associated wiring diagrams. It

Distribution board

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Read this comprehensive buyer's guide on distribution boards, explaining what they are, their uses, types, how to

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Learn about the different types of electrical panels for your residential, commercial, and industrial needs and get tips

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An electrical distribution board receives an incoming electrical supply and organizes power distribution to outgoing

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

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A: To choose the right size distribution box, consider the total power demand of your

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In Conclusion Most residential and commercial electrical systems have at least one distribution box. A distribution box

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Key Takeaways A distribution board safely distributes electrical power from a main source to

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