

Complete List of Household Electrical Distribution Box Models



AI Overview

Household electrical distribution boxes come in multiple types, including main distribution boards, sub-distribution boards, modular boxes, and smart DBs, each designed for specific residential applications.

Main Types of Household Distribution Boxes

- Main Distribution Board (MDB)** Central hub for incoming power from the utility. Houses the main switch, circuit breakers, and sometimes meters. Provides overcurrent protection and allows complete disconnection of power for maintenance ().
- Sub-Distribution Board (SDB)** Receives power from the main board and distributes it to specific areas or floors. Often used in larger homes or multi-story buildings to reduce wiring complexity ().
- Modular Distribution Boxes** Designed to accommodate Miniature Circuit Breakers (MCBs), Residual Current Circuit Breakers (RCCBs), and isolators. Modular design allows easy expansion or replacement of components ().
- Surface-Mount and Flush-Mount Boxes**
 - Surface-mount:** Installed on walls, easy to access, suitable for retrofits.
 - Flush-mount:** Embedded into walls for a cleaner look, commonly used in modern homes ().
- Smart Distribution Boxes** Equipped with energy monitoring units, communication modules, and remote control features. Allow real-time monitoring of power usage and remote management of circuits ().
- Weatherproof or Outdoor Boxes** Made from polycarbonate, ASA, or epoxy-coated stainless steel. Protect against moisture, dust, and physical damage for outdoor installations ().
- Specialized Boxes**
 - Surge Protective Device (SPD) integrated boxes:** Protect against lightning or voltage spikes.
 - RCCB + MCB combination boxes:** Provide both overcurrent and earth leakage protection ().

Key Components Across All Household Distribution Boxes

- Main Switch:** Controls overall power supply.
- Circuit Breakers (MCBs):** Protect individual circuits from overloads.
- Residual Current Circuit Breakers (RCCBs):** Detect...

Article Content

Understanding Distribution Boxes: A Comprehensive

A distribution box, also known as a power distribution box or electrical distribution box, is used to distribute electrical power safely to multiple

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This guide explores control panels, electrical boxes, breaker panels, bus bars, junction boxes, and custom enclosures to help you understand their

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find the perfect DB box for your needs.

Electrical Distribution Box: Complete Panel Types Guide 2025

Learn what an electrical distribution box is in simple terms. Complete guide to panel types, NEC 408 requirements, and applications for home and commercial use.

Types of Electrical Distribution Boards Explained

Distribution boards are an essential part of any electrical installation as they act as a central point for the distribution of electrical power. They come in

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 environments, including

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Distribution board

A distribution board (also known as panelboard, circuit breaker panel, breaker panel, circuit breaker, electric panel, fuse box or DB box) is a component of an

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A well-chosen distribution box ensures the safety and efficiency of your household electrical system. This article guides you through selecting a

Complete Guide For Distribution Boxes Types

The correct choice and installation of distribution boxes are crucial for electrical safety, efficiency, and reliability. This guide provides an exhaustive overview of

10 Distribution Board Types Explained [July 2026]

In this article, we'll explain the main types, what they do, and how to choose the right one for your setup. A distribution board safely distributes

Distribution Box and Selection Guide: Internal Structure,

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars, earth bars, RCDs, RCBOs,

Distribution Boxes Types - The Complete Guide

The power distribution boxes deliver electricity from the main electrical main to other circuits. Several distribution boxes are designed for specific use in

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Discover electrical distribution boxes types, components (MCB, RCCB, RCBO, SPD, busbar) and functions. Get expert selection guidance and

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This article guides you through selecting a distribution box that is both affordable and safe, emphasizing key features, configuration, and practical

Home Electrical Panel: Complete Guide & Diagrams | Solera

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The Complete Guide to Distribution Box: Installation, Types & More

A distribution box, also known as a distribution board, electrical panel, or breaker box, is an enclosure that houses electrical components responsible for distributing electricity throughout a

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A Complete Guide to Distribution Boards

A Complete Guide to Distribution Boards Our distribution boards guide explains what they are, their uses and types, and how to connect

Distribution Boards & Consumer Units

Distribution boards, together with modular ABB system pro M Compact protection devices and Modular Din Rail Components, can be used for many applications in electrical building installation. Solutions

Electrical Distribution Box Diagrams

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

ABB Consumer Units & Distribution Boards

ABB Distribution Boards Catalogue - Free download as PDF File (.pdf), Text File (.txt) or read online for free. This document provides information on ABB's

12 types of distribution boxes and how to choose them

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 about what each one does, where it shines, and then dive into how to

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What is an Electrical Distribution Box? A Comprehensive Guide

Discover everything you need to know about electrical distribution box! Learn about types, components, and how to choose.

Complete Guide For Distribution Boxes Types

Distribution boxes, also known as electrical distribution boards or panels, are pivotal components in electrical systems, ensuring the safe and organized distribution of

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