

Types and Dimensions of Distribution Boxes



Overview

Distribution Box and Selection Guide: Internal Structure, Components. Learn how to choose a distribution box and understand its internal structure, inclu.

Key Takeaways

Distribution boxes come in various types and sizes, ranging from small residential breaker panels to large industrial main distribution boards, with dimensions tailored to their number of ways and applications. Common Types and Their Dimensions

- TOP Series Distribution Boxes These include TOP-TS, TOP-TF, TOP-LS, TOP-PS, TOP-PF, and TOP-S models. They are available in 1-way to 36-way configurations, with dimensions varying according to the number of ways. Typical dimensions include length, width, and height, which increase as the number of ways increases to accommodate more circuit breakers and bus bars .

- Main Distribution Board (MDB)

- Purpose: Central hub for distributing electricity to multiple sub-circuits in residential, commercial, or industrial settings.

- Dimensions: MDBs are generally larger, often 600–1200 mm in height, 400–800 mm in width, and 150–300 mm in depth, depending on the number of circuits and components like MCCBs, bus bars, and support equipment .

- Sub Distribution Board (SDB)
 - Purpose: Distributes power from the MDB to specific areas such as garages, parking lots, or floors in a building.
 - Dimensions: Smaller than MDBs, typically 400–800 mm height, 300–600 mm width, and 120–200 mm depth, depending on the number of circuits .
- Meter Panels
 - Purpose: Houses electrical meters for monitoring power consumption.
 - Dimensions: Usually compact, around 300–600 mm height, 200–400 mm width, and 100–150 mm depth, designed to fit standard meter sizes .
- Panel Fuse Banks and Unitized Panels
 - Purpose: Provide protection and distribution for multiple circuits in industrial or commercial setups.
 - Dimensions: Vary widely, often 500–1000 mm height, 400–800 mm width, and 150–300 mm depth, depending on the number of fuses or breakers .
- Enclosed Switchgear and Transfer Switch Boxes
 - Purpose: Used in industrial or critical power applications for switching and protection.
 - Dimensions: Larger enclosures, typically 800–2000 mm height, 600–1200 mm width, and 300–600 mm depth, designed to house heavy-duty switches, breakers, and control equipment .

Key Considerations

- Number of Ways: The more circuits a box accommodates, the larger its dimensions.
- Application: Residential boxes are smaller and compact, while industrial boxes are larger to house more components.
- Mounting Type: Wall-mounted boxes are generally shallower, while floor-standing or freestanding panels are deeper and taller.
- Environmental Protection: Outdoor or harsh-environment boxes may include additional space for weatherproofing and insulation. By understanding the type, number of ways, and intended application, you can select a distribution box with the appropriate dimensions for safe and efficient electrical distribution .

Article Content

Distribution Box and Selection Guide: Internal Structure, Components ...

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

Types of Distribution Boxes: Applications and Selection Guide

Compare distribution box types, their applications, and selection tips. Find the best fit for your project with this

Distribution Boxes Types - The Complete Guide

A commonly used distribution box contains doorbells, earth leakage devices, timers, or contact breakers. However, the

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

Ultimate Guide To Distribution Boxes Db Boxes Types

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

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find

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This guide explores control panels, electrical boxes, breaker panels, bus bars, junction boxes, and custom enclosures

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This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways. It

The Ultimate Guide to Distribution Box Types

Whether you're working on a residential building, a commercial facility, or a large industrial plant,

What are the types of distribution boxes?

Choosing the right distribution box is crucial for the safety, efficiency, and reliability of any electrical system.

10 Distribution Board Types Explained [August 2026]

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

Electrical Distribution Box: Complete Panel Types

Learn what an electrical distribution box is in simple terms. Complete guide to panel types,

Distribution Boards

Distribution boards, often referred to as electrical panels or breaker boxes, serve as the nerve center of any electrical system. Here

What Is a Distribution Box? Types, Components & How

A distribution box, also called an electrical distribution box, distributes incoming power to

Understanding Distribution Boxes:A Comprehensive Guide

A distribution boxes is an essential device that manages the safe and efficient flow of

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Learn standard electrical box dimensions for outlets, switches, and junction boxes.

Electrical Distribution Boxes: Types, Components

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Understanding Distribution Boxes: Your Guide to Power

What are Distribution Boxes and Their Importance? 1.1 What is the function of a

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Size determination, installation method and wiring mode of distribution ...

The distribution box is the central hub of the home circuit and the general control of our daily power consumption. It is an

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Learn about the types of electrical boxes you can use for your home wiring project. From junction boxes to work

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Learn how distribution boards organize incoming power and outgoing circuits, compare common configurations, and

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Our distribution boxes are perfect for industrial environments, catering to automation, robotics, and processing facilities. They provide

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SELECT YOUR DISTRIBUTION SYSTEM

Distribution is an essential function for the electrical panels, as well as for control and circuit protection. As well as purely technical

Distribution board

A distribution board (also known as a panelboard, circuit breaker panel or box, electric panel, fuse box or

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GSDB-4030 400x300x190 3 Phase Service Connection Distribution Box/ ABC Distribution Box 11.

How to choose the size of distribution box? What kinds of distribution ...

The size of the distribution box used in the room is generally different from that of the general industrial production distribution box.

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A comprehensive understanding of distribution box

Picking the right distribution box Choosing the right distribution box is very important. It keeps your electrical system

Distribution box | PDF

This document provides specifications for various types of plastic distribution boxes, including their

Explore Distribution Boxes for Every Setting with Different Types ...

Remember, consulting with a qualified electrician is vital for getting the exact size and type of distribution box that

What are the types of distribution boxes?

Matching the Box to the Need There is no one-size-fits-all distribution box. Understanding the distinct roles of low

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

