

Main Distribution Box Sub-box



Article Overview

A distribution box (DB) safely divides incoming electrical power into multiple circuits, with the main box serving as the primary hub and sub-boxes extending distribution to specific areas or loads.

Distribution Box Overview

A distribution box, also called a distribution board, DB box, or panelboard, is an electrical enclosure that receives power from the mains and distributes it to multiple branch circuits while providing protection through devices like MCBs, fuses, RCDs, or RCBOs . It ensures safe and organized power management, prevents overloads, short circuits, and earth faults, and protects both people and equipment . Typical components include busbars, neutral and earth bars, switches, isolators, and optional surge or leakage protection devices .

Main Distribution Box

The main distribution box is the primary hub where the incoming supply enters a building or facility. Its key functions include:

- **Distribution:** Splits the main supply into multiple outgoing circuits.
- **Protection:** Houses the main switch and protective devices to disconnect faulty circuits.
- **Isolation:** Allows complete disconnection of power for maintenance or emergencies.
- **Connection and Containment:** Organizes live, neutral, and earth conductors while protecting components from environmental hazards . The main box typically handle...

Article Content

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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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Distribution Box and Selection Guide: Internal Structure,

Below is a simplified internal structure diagram for a typical single-phase AC distribution

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Electrical Distribution Boxes -ZHENGKAI

Distribution boxes (DB), also known as distribution boards, are essential for safely

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The Main Electrical Panel & Subpanels

Christian Delbert / Shutterstock Here we look at the load centers—the distribution center or main panel and

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Understanding Distribution Boxes: Your Guide to Power

Understanding distribution boxes: Your guide to power distribution. Learn about power

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Distribution Boxes Types – The Complete Guide

These boxes are used in various places, such as residential areas or industries. They simply work by transferring

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Ultimate Guide To Distribution Boxes Db Boxes Types

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

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Sub Panel vs Main Panel: The Key Difference

The main panel and a sub panel have similar responsibilities. But perhaps one of the main differences between the

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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Different Types of Distribution Boards & Their Uses Explained

Explore different types of electrical distribution boards and their uses. Learn how they manage power safely in homes and

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Understanding the Electrical Sub Panel: A Clear

An electrical sub panel, also known as a sub panel box or breaker box, is an essential component of an

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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,

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A Complete Guide to LV Distribution Board | CHINT global

Main distribution boards (MDB) manage and distribute electrical power from one or more sources to branch circuits in

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Wiring of the Distribution Board with RCD (Single Phase Home Supply)

Wiring Accessories for Single Phase Distribution Board Main Distribution Board or Fuse Boards (Consumer Unit) usually contains on

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ABB I Sub distribution boards

Depending on your specific application, our range of sub distribution boards includes solutions with mounting plates and DIN-rails

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What Is a Distribution Box?

Some distribution boxes have a longer cord than others. When choosing a distribution box, make sure the cord is

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Distribution board

Below the main breaker are the two bus bars carrying the current between the main breaker and the two columns of branch circuit

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Power Distribution Boxes Explained Simply

Learn what a power distribution box is, how it works, key components, types, and why it's

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The Ultimate Guide to Distribution Box Types

Discover the key types of distribution boxes with NUOMAK's comprehensive guide. Learn about Main

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The Difference Between a Main Panel and Subpanel, and How to Use

A main panel is an installed box where the power from the utility company enters the premises. A subpanel is an installed feature that

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Distribution db box wiring diagram

A distribution board DB is where the electrical supply is distributed from within the

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Distribution Board vs Distribution Box: Key Differences

A distribution board is a fixed electrical panel that divides power into circuits with protection;

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10 Distribution Board Types Explained [July 2026]

The Main Distribution Board (MDB) is the main hub that receives electricity from the power

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Subpanels Explained for Home Owners

A subpanel serves as a satellite breaker box and offers a convenient way to control circuits in a remote location, such

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Distribution Boxes Types – The Complete Guide

The power distribution boxes deliver electricity from the main electrical main to other circuits.

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Distribution Board vs Distribution Box: Key Differences

Whether you need a reliable distribution board for your facility or a portable distribution box

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Learn the difference between a distribution board and a switchboard

Electrical systems appear complex, making it difficult to understand what the difference is between the switchboard and distribution

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Main Panel vs Sub Panel: Key Differences Explained

Understand the difference between main and sub panels, how they work together, and when to use each for safe and

Contact Us

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