

Classification of Factory Electrical Distribution Boxes



AI Overview

Factory electrical distribution boxes are classified by installation environment, mounting method, material, phase type, and functional purpose.

Classification by Installation Environment

- Indoor Distribution Boxes:** Used in protected environments such as factories, offices, or utility rooms where exposure to rain, dust, or extreme temperatures is minimal.
- Outdoor Distribution Boxes:** Designed for exposed areas, requiring robust enclosures and higher IP protection ratings to withstand weather, dust, and sunlight.

Classification by Mounting Method

- Wall-Mounted Boxes:** Installed directly on walls, suitable for limited floor space and easy access.
- Floor-Standing Boxes:** Larger enclosures for industrial systems with higher load capacity and more circuits.
- Pole-Mounted Boxes:** Typically used outdoors for street lighting or utility applications.

Classification by Material

- Metal Boxes:** Provide high mechanical strength, impact resistance, and durability, commonly used in industrial settings.
- Plastic Boxes:** Lightweight, corrosion-resistant, and suitable for residential or light commercial applications.

Classification by Phase Type

- Single-Phase Boxes:** Suitable for small loads or residential areas.
- Three-Phase Boxes:** Used in factories and large commercial facilities requiring higher power capacity.

Classification by Functional Purpose

- Main Distribution Board (MDB):** Central hub distributing electricity to various sections of a factory, often including bus bars, MCCBs, and support equipment.
- Sub Distribution Board (SDB):** Transfers electricity from the main board to specific areas like workshops, parking lots, or production lines.
- Meter Panels:** Track electricity usage and include primary switches, fuses, and circuits.
- Lighting Distribution Boxes:** Dedicated to lighting circuits with protective devices.
- Power Distribution Boxes:** Supply sockets, machinery, and heavy equipment.
- Control Distribution Boxes:** Integrate control com...

Article Content

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.

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

Electrical Distribution Box: Complete Panel Types

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

Electrical Distribution Boxes -ZHENGKAI

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

Oem Custom Electrical Distribution Box: Composition, Classification ...

Choosing the right type ensures reliability, safety, and efficiency in power distribution. Each type of distribution box serves a unique purpose and is optimized for specific applications, from industrial

12 types of distribution boxes and how to choose them

Key Factors in Choosing a Distribution Box Building Type and Size: Start with where it's going. For homes, a residential or flush-mounted box might suffice, but large spaces need sub

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Electrical Control Panels & Distribution Boxes: Sizes,

Introduction Electrical control panels and distribution boxes are the backbone of modern electrical systems. From powering homes and industrial

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A Complete Guide to Distribution Boards

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

10 Distribution Board Types Explained [July 2026]

Key Takeaways A distribution board safely distributes electrical power from a main source to various circuits and areas within a building. There are 10

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,

The Ultimate Guide to Distribution Box Types

Discover the key types of distribution boxes with NUOMAK's comprehensive guide. Learn about Main Distribution Boards (MDB), Consumer Units, Transfer

Complete Guide For Distribution Boxes Types

By understanding the specific requirements and characteristics of each type of distribution box, electrical engineers, contractors, and homeowners can make informed decisions to ensure efficient and safe

Distribution Box Industry Comparison of Types and Uses

Compare types and uses of distribution boxes in the distribution box industry, covering residential, commercial, and industrial applications.

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

Electrical Distribution Boxes: Types, Uses & Selection Guide

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

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

What are the classifications of power distribution boxes?

This kind of switchgear cabinet is made of steel plate with enclosed shell, and the electrical components of the incoming and outgoing circuits are installed in the drawer that can be withdrawn, constituting a

Inside Electrical Distribution Box Factory: Specifications, Grades, and ...

Explore an electrical distribution box factory: understand key specifications, performance grades, and how they're applied across industrial sectors for reliable power distribution.

Classification, Structure, and Troubleshooting of Box Substation

Box substations are integral components of power distribution systems, playing a crucial role in transforming and distributing electrical energy. These compact units combine various

Understanding Distribution Boxes: A Comprehensive

Learn what a distribution box is, its types, and how to choose the right one for your project. Includes clear examples and expert tips.

Distribution Box: Types and Functions | Axis-Electricals

A distribution box ensures that electrical supply is distributed in the building, also known as a distribution board, panel board, breaker panel, or electric panel.

What is an Electrical Distribution Box? A Comprehensive Guide

When it comes to electrical safety, every building — whether it's a cozy home or a sprawling factory — needs a secure

Ultimate Guide To Distribution Boxes Db Boxes Types

This ultimate guide explains what a distribution box does, its internal components, common types, real-world applications, and how to select the right DB Box for

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