Complete Guide to Distribution Box Specifications Models and Dimensions



Overview

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 your project.

Key Takeaways

Distribution boxes come in various models and specifications, ranging from low-voltage fixed and withdrawable switchgear to plastic consumer units, with dimensions and mounting types tailored to industrial, commercial, and residential applications. Types and Models1.

Low-

Voltage Fixed SwitchgearGGD Series: Used in substations and power plants; rated voltage 380V, AC 50Hz, high breaking capacity, stable performance, and compact structure.

GD

H Series: Similar to GGD, with manufacturer-specific parameters for stable power supply.

PG

L Series: Widely used in areas requiring reliable low-voltage distribution. 2.

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Low-

Voltage Withdrawable SwitchgearGCK Series: Composed of power distribution center cabinets and motor control centers; rated voltage ~660V, AC 60Hz; suitable for motor control and lighting equipment.

GC

S Series: Rated voltage 400V, AC 50Hz; used in power supply systems for industrial, oil, and high-rise buildings.

MN

S Series: Compact, stable, and widely used in small power plants, industrial enterprises, and hotels. 3. Plastic Distribution BoxesC6 Series Single Phase Distribution Board: Includes cover, frame, base box, guide rail, neutral and earth copper bars; available in surface or flush mounting.

Ex9XG Series: Designed for outdoor and indoor applications like construction sites, parking lots, gardens, and bathrooms; provides waterproof, dustproof, and smoke-proof protection.

Dimensions and Mounting

Distribution boxes are available in 1-way to 36-way configurations, with dimensions specified in length, width, and height depending on the model. Mounting types: Flush Mounted: Installed inside walls for a concealed look. Surface Mounted: Hung on wall surfaces for easy access.

Standard cable lengths for wiring vary from 1 m to 10 m, with dimensions provided in millimeters or inches depending on the manufacturer.

Applications

Industrial and Mining Sites: Power distribution, motor control, and lighting systems. Residential and Commercial Buildings: Consumer units, electricity control, and protection against overload. Outdoor and Specialized Areas: Waterproof and dustproof boxes for gardens, parking lots, and construction sites.

Key Features

Protection against overload, short circuits, and environmental factors. Compatibility with PNP and NPN wiring for status indicators. Modular design allows for easy expansion and maintenance.

Compliance with AC frequency and rated voltage standards for safe operation. Distribution boxes are selected based on voltage requirements, number of ways, mounting type, and environmental conditions, ensuring safe and efficient power distribution across various applications.

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Article Content

How to classify and manage distribution boxes by specifications

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 your project.

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, earth bars, RCDs, RCBOs, SPDs, enclosure ratings, and wiring layout.

Distribution Box Specifications & IEC Protection Standards

Evaluate distribution box parameters, bus bar configurations, and overcurrent protection requirements for industrial compliance.

Distribution box catalogue | PDF

This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways. It includes specifications for TOP-TS, TOP-TF, TOP-LS, TOP-PS, TOP

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

The Ultimate Guide to Distribution Box in 2026

Discover everything about distribution box: types, specs, installation & safety. Get reliable power solutions for residential, commercial & industrial use today!

Standard specifications for distribution boxes default

This document provides specifications for various types of plastic distribution boxes, including their dimensions and features. It describes HA, HK, and LGD series

Distribution Boxes Technical Data

Two provided with box. One set provided with box. Dimensions are shown in mm (in.). (1) Replace x with 1 [1 m (3.28 ft)], 2 [2 m (6.56 ft)], 3 [3 m (9.84 ft)], 5 [5 m (16.40 ft)], or 10 [10 m (32.81 ft)] for standard

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.

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Distribution Box Specifications And Models

There are many specifications and models of Distribution box. The following are some common specifications and models of distribution boxes and

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RANGE & SPECIFICATIONS: Sr. No. Product Code Inside Dimensions (mm] H x W x D Typical Applications

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 power throughout

Distribution Box Specifications And Models

3. Other common distribution boxes XL, GXL series: Low-voltage distribution cabinets, commonly used in construction sites and other places. PXT

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

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"Guidelines for Household Distribution Box Specifications and ...

For smaller boxes, wooden blocks can be pre-installed at the corners to facilitate mounting with wood screws. Concealed Installation: If the distribution box is to be embedded within

Understanding Distribution Boxes: Your Guide to Power

Understanding distribution boxes: Your guide to power distribution. Learn about power distribution box functions and shop power distribution options.

Distribution Box

Metal Distribution Box Features Continuously welded seams Foam-in-place seamless gasket 120-degree opening heavy-duty industrial hinges IP66 protection rating against dust and water according

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



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