

What are the model and specifications of the distribution box

Article Overview

Distribution boxes (DB boxes) come in various models such as GGD, GDH, PGL, GCK, GCS, and MNS, each with specific voltage, frequency, and application characteristics.

Common Models and Specifications

o Low-Voltage Fixed Switchgear

o GGD Series: Used in power industries like substations and power plants; high breaking capacity, stable performance, AC 50Hz, rated voltage 380V .

o GDH Series: Similar to GGD, with manufacturer-specific parameters; AC 50Hz, low-voltage applications .

o PGL Series: Widely used where stable power supply is required; low-voltage fixed switchgear .

o Low-Voltage Withdrawable Switchgear

o GCK Series: Composed of power distribution center cabinets and motor control centers; AC 60Hz, working voltage ~660V; suitable for motor control and lighting equipment .

o GCS Series: AC 50Hz, rated voltage 400V; used in power plants, oil facilities, high-rise buildings with high power consumption .

o MNS Series: Compact, stable, suitable for small power plants, industrial enterprises, buildings, and hotels; widely used in low-voltage distribution systems .

Key Components

o Circuit Breakers: Protect circuits from overloads and short circuits; can be single- or double-pole .

o Residual Current Circuit Breakers (RCCB): Detect imbalances between phase conductors for enhanced safety .

o Bus Bars: Copper or aluminum strips distributing power within the panel .

o Isolators: Manually operated devices to isolate circuits for maintenance .

o Smart Features: Some DB boxes include energy monitoring units and communication modules for real-time data and remote control .

Types by Installation and Application

o Surface Mounted: Installed directly on walls; suitable for retrofits and industrial environments .

o Flush Mounted: Embedded into walls; common in residential and commercial buildings .

o Pole Mounted: Outdoor use, including street lighting and utility applications .

o Single Phase: Residential or small commercial loads .

o Three Phase: Industrial or large commercial facilities requiring higher power capacity .

o Lighting Distribution Boxes: Dedicated to lighting circuits .

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- o Power Distribution Boxes: Support sockets, equipment, and heavy machinery .
- o Control Distribution Boxes: Integrate relays, contactors, and timers for automation .

Summary

Distribution boxes are essential for safe and organized power distribution across residential, commercial, and industrial settings. Choosing the right model depends on voltage, frequency, load type, and installation environment. Fixed switchgear like GGD, GDH, and PGL is ideal for stable low-voltage applications, while withdrawable switchgear like GCK, GCS, and MNS suits motor control and high-consumption systems. Advanced DB boxes may include smart monitoring and remote control features for enhanced energy management .

Modern automation solutions are becoming increasingly decentralised. As a result, you need distribution systems that can be easily

This specification covers the design, manufacture, testing at works, and supply of Distribution Boxes made

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

? Introduction Distribution boxes are at the heart of safe and organized electrical systems--whether in residential,

Legrand's Distribution Boards deliver safe, reliable power distribution for homes, commercial spaces, and industrial applications,

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

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

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

What are Distribution Boxes and Their Importance? What are Distribution Boxes and Their

DRAFT SPECIFICATION FOR L. T. DISTRIBUTION BOX OF DISTRIBUTION TRANSFORMER (DTR) OF DIFFERENT RATINGS

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

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

A distribution box organizes and controls power flow, ensuring safety and efficiency in electrical systems.

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

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

1. SCOPE: This Specification covers the design, manufacture, testing at works and supply of Distribution Boxes made out of CRCA

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