

Complete List of Unit Distribution Box Models and Specifications

Article Overview

Distribution boxes come in various models and specifications, including low-voltage fixed and withdrawable switchgear, modular consumer units, and smart decentralized boxes, designed for residential, commercial, and industrial applications.

Types of Distribution Boxes

o Low-Voltage Fixed Switchgear

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

o GDH Series: Similar to GGD, with variations depending on manufacturer; suitable for stable power supply applications.

o PGL Series: Low-voltage fixed switchgear for general power distribution needs .

o Low-Voltage Withdrawable Switchgear

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

o GCS Series: AC 50Hz, rated voltage 400V; used in power supply systems for high-consumption areas like power plants and high-rise buildings.

o MNS Series: Compact, stable, widely used in industrial, mining, and commercial low-voltage distribution systems .

o Modular Consumer Units

o ABB Mini Center Compact: Flexible distribution boards for residential, commercial, and infrastructure applications; supports incomers like Switch Disconnector, MCCB, MCB, RCCB, RCD, or direct cable connection.

o Features include shrouded busbars, removable pan assembly, generous wiring space, and easy installation of incoming devices .

o Smart and Decentralized Distribution Boxes

o Designed for building automation and industrial plants; allow pluggable installation close to the load.

o Support energy, signal, and data distribution; compliant with IEC 61439 and IEC 61535 standards.

o Suitable for harsh environments, with ventilation options for heat dissipation and easy access for commissioning and troubleshooting .

Key Specifications

o Voltage and Frequency: Typically AC 50Hz or 60Hz; rated voltages range from 380V to 660V depending on

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model.

- o Number of Ways: Distribution boxes can range from 1-way to 36-ways, depending on the model and application .
- o Dimensions: Vary by model; detailed length, width, and height specifications are provided in manufacturer catalogues .
- o Cable Lengths: Standard cable lengths include 1m, 2m, 3m, 5m, and 10m options .
- o Safety Features: Shrouded busbars, secure front cover screws, and modular design for safe installation and maintenance .
- o Applications: Residential, commercial, industrial, substations, motor control, lighting systems, and smart building automation .

Summary

Distribution boxes are highly versatile, ranging from low-voltage fixed and withdrawable switchgear for industrial and power applications to modular consumer units for residential and commercial use, and smart decentralized boxes for modern building automation. Selection depends on voltage, current rating, number of ways, environmental conditions, and specific application requirements. Manufacturers like ABB, Wieland, and SMICO provide detailed catalogues to guide proper selection and installation .

The wide range of distribution boards enables each customer to select an individual and economical configuration according to his

For seamless consolidation, distribution, and management of power supply. Find distribution boxes that are designed to perform and

The general process of customizing a complete set of distribution boxes: Requirement

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

Aluminium Copper Distribution box - 300 mm² - 540 A max. Residential and small commercial panels | Distribution | !

Distribution boxes, also known as electrical distribution boards or panels, are pivotal components in electrical systems, ensuring the

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

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

This paper systematically reviews the specifications, models, and key selection criteria for mainstream distribution boxes across four

Starting from compact boards for energy distribution applications up to floor standing energy supplying switchboards for huge sites of

Product Specification Sheets for Portable Power Distribution Units (PDU) Our Stock and Custom-built Power Distribution Units (PDU)

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

A Complete Guide to Distribution Boards Our distribution boards guide explains what they are, their uses and types,

Technical Info -- From the sub distribution to factory power supply, from the general industry to the marine, nuclear power plant,

Summary of Changes This publication contains the following new or updated information. This list includes substantive updates only

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

Web: <https://morwarreconst.co.za>

