

Standard Industrial Distribution Box Specifications and Models



Overview

Distribution Box Specifications & IEC Protection Standards Evaluate distribution box parameters, bus bar configurations, and overcurrent protection requirement.

Key Takeaways

Industrial distribution boxes come in various models such as GGD, GDH, PGL, GCK, GCS, and MNS, each designed for specific voltage, current, and application requirements. Key Models and Their Specifications

1. Low-Voltage Fixed Switchgear

- GGD Series: Used in power industries like substations and power plants; features high breaking capacity, stable performance, AC 50Hz, rated voltage 380V .
- GDH Series: Similar to GGD, with manufacturer-specific parameters; suitable for stable low-voltage power distribution .
- PGL Series: Widely used in facilities requiring reliable power supply; low-voltage fixed switchgear with robust structure .

2. Low-Voltage Withdrawable Switchgear

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

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

- MNS Series: Compact, stable, and versatile; suitable for industrial, mining, and commercial low-voltage distribution systems .

Common Industrial Distribution Box Types

- Main Breaker Panels: Control total amperage, protect circuits, and provide a main disconnection switch .

- Main Lug Panels: Sub-panels without a main breaker; line wires connect directly to lugs .

- Sub-Panels: Draw power from the main panel to distribute to specific zones; no main disconnection switch .

- Transfer Switches: Shift load between mains and backup sources; available in manual or automatic versions .

- Power Distribution Units (PDUs): One input, multiple outputs; customizable with MCBs, RCBs, and voltage ratings .

Specifications and Features

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

- Number of Ways: Industrial boxes can range from 1-way to 36-ways, depending on application .

- Internal Components: Busbars, neutral and earth bars, MCBs, RCDs, RCBOs, fuses, isolators, surge protective devices, and DIN rail-mounted terminal blocks .

- Enclosure Protection: IP-rated for dust and water resistance; corrosion-resistant materials for industrial environments; UV and impact protection for outdoor use .

- Mounting Types: Surface-mounted, flush-mounted, or pole-mounted depending on installation requirements .

- Phase Configuration: Single-phase for residential or small commercial loads; three-phase for industrial and large commercial facilities .

Selection Considerations

- Application: Industrial, commercial, outdoor, solar, or machinery-specific requirements .

- Load and Short-Circuit Capacity: Rated current and fault current must match system needs .

- Protective Devices: Choice of MCB, RCCB, RCBO, fuses, or surge protection based on safety and compliance .

- Standards Compliance: IEC 61439, IEC 60670, UL/NEC, BS 7671, or local regulations . Industrial distribution boxes are critical for safe, reliable, and efficient power distribution. Choosing the right model involves matching voltage, current, protection devices, and environmental requirements to the specific industrial application.

Article Content

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

Distribution box catalogue | PDF

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

Distribution Box Specifications And Models

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

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

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,

A Technical Overview of Distribution Box Electricity: Specifications ...

Depending on the environment, application, and safety requirements, various types of distribution boxes are designed

Distribution Boxes

Description Distribution boxes are a great way to increase flexibility and cut costs. They lower your labor costs by reducing

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DC Micro Style Distribution Boxes Four-pin, One Signal per Port Cable Connector
Distribution Box Eight-port DC Micro Distribution

Distribution Box

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

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SELECT YOUR DISTRIBUTION SYSTEM

Distribution is an essential function for the electrical panels, as well as for control and circuit protection. As well as purely technical

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

A Technical Overview of Distribution Box Electricity: Specifications ...

Types of Electrical Distribution Boxes An electrical distribution box (also known as a distribution board or panel) is a

Distribution Box

Metal Distribution Box Features Continuously welded seams Foam-in-place seamless gasket 120-degree opening heavy-duty

What Is a Distribution Box? Types, Components & How

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

Selection Recommendations for Industrial Plugs, Sockets, and

Industrial plugs, sockets, and couplers are mainly divided into four categories: plugs, sockets, connectors, and

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Industrial Distribution Box | IP67 Power Enclosure

An industrial distribution box, also known as an electrical distribution box or control panel, is an enclosure that houses electrical

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Enclosures | Housings | Junction boxes | Eaton

It's not only important to have reliable power, but safeguarding your power distribution with quality environmental enclosures is

Choose & Install Low Voltage Distribution Boxes Practical Guide

Select and install low voltage distribution boxes . This guide covers sizing, mounting, cable management, maintenance

DB BOX(Electrical Distribution Box): Everything You Need to Know

Learn everything you need to know about the Electrical Distribution Box (DB Box). Explore types, materials, installation

Distribution enclosure, Distribution box

The modular distribution box OMP 19 " 3U Q-Fiber consists of a chassis (rack mount box) and blade modules used for the

NEMA Enclosure Types

The NEMA Standard for Enclosures for Electrical Equipment does test for environmental conditions such as corrosion, rust, icing, oil,

Requirements And Specifications For Installation Of Distribution Boxes ...

In flammable and explosive environments, explosion-proof distribution boxes should be selected and explosion-proof

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Typical Applications

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find

Distribution Boards | Legrand DB Board for Safe Power Supply

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

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CATALOGUE General purpose enclosures Heavy duty and

Applications Ideal for industrial automation and control, machinery and OEM. Electronic applications in the telecommunications

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Electrical distribution boxes for modular power distribution and installation. Flexible distribution solutions for industrial and building

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

