Distribution Box Size Specifications and Prices



Overview

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

Key Takeaways

Distribution boxes vary in size, type, and price depending on application, amperage, number of circuits, and mounting style, with residential units starting around $30–$100 and industrial units costing significantly more.

Sizes and Types

Distribution boxes, also known as electrical distribution boards or consumer control units, come in residential, commercial, and industrial sizes. Residential boxes typically support single-phase or three-phase systems with 12 to 42 circuits, while industrial boxes may handle medium-voltage systems and include custom enclosures for PLCs, relays, and contactors. Standard physical dimensions vary, with boxes ranging from small flush-mounted panels to large wall-mounted or outdoor enclosures.

Some common types include: Single-phase residential panels: 32–63A, flush or surface mounted, 1–12 ways. Three-phase commercial/industrial panels: 100–400A, multiple ways (up to 36 or more), often pre-wired and IP-rated for outdoor use. Specialty retrofit boxes: Designed for easy installation in existing walls or sub-floors, often with fire ratings and waterproofing.

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Specifications

Key specifications to consider include: Amperage capacity: Residential panels often 32–200A; industrial panels 100–400A or higher. Number of circuits (ways): 1-way to 36-way options available. Material: Plastic, steel, or metal-clad enclosures; weatherproof or indoor-rated.

Mounting type: Flush-mounted (inside wall) or surface-mounted (on wall surface),. Protection features: Circuit breakers, fuses, neutral and earth copper bars, overload protection, IP ratings (IP44/IP67 for waterproofing),. Advanced features: Smart monitoring, digital displays, remote control, and energy management capabilities.

Price Range

Pricing depends on size, material, and features: Residential units: Typically $30–$100 for basic single-phase panels; higher for 200A or smart panels. Commercial units: $150–$500+, depending on amperage, number of circuits, and IP rating. Industrial units: Can exceed $1,000, especially for medium-voltage, weatherproof, or pre-wired enclosures with advanced monitoring.

Applications

Distribution boxes are used in: Residential: Homes, apartments, and EV-ready panels. Commercial: Offices, retail spaces, and data centers. Industrial: Factories, manufacturing plants, and mining sites.

Infrastructure: Outdoor joint boxes, underground cable distribution, and renewable energy installations. Selecting the right distribution box requires considering amperage needs, number of circuits, mounting type, environmental conditions, and future expansion, especially for EV charging or smart home integration.

Article Content

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

Distribution Box Cost Guide: Value & Features

Explore distribution box cost factors, safety features, and budget solutions. Learn how to select the right panel for your needs and budget.

Distribution Box Size Guide for Electrical Projects

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Find the perfect distribution box size for your electrical needs. Explore industry standards, material options, and expert tips to ensure safety and efficiency. Click to discover ideal sizing

Distribution Box

Our distribution boxes are perfect for industrial environments, catering to automation, robotics, and processing facilities. They provide cost-effective solutions through automated dispensing and

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.

Electrical DB Box Size Guide 2026

This report provides a comprehensive analysis of electrical distribution board (DB) box sizes, including physical dimensions, electrical

Types and prices of distribution boxes in 2025_COLORIA GROUP

At the heart of this system lies the humble distribution box - your building''s nerve center for electricity. With building materials evolving rapidly and power demands increasing, choosing the

Explore Distribution Boxes for Every Setting with Different Types ...

Distribution boxes act as the central hub, receiving the main electrical supply and dividing it into designated circuits for lighting, outlets, and appliances. They provide a safe and organized way

Electrical Control Panels & Distribution Boxes: Sizes,

Learn about control panels, breaker boxes, junction boxes, and custom enclosures. Explore standard panel sizes, applications, and key

Distribution Board for Home & Commercial Space | GM Modular

Power Distribution Board- GM Modular A distribution board is also known as db board or main distribution board is part of an electricity supply system that divides power into smaller circuits. It has

How to choose a distribution box of the right size for a project based ...

If you''re like most electrical professionals, picking the right distribution box for your project can feel like navigating a maze. I''ve been in those shoes - staring at spec sheets, worrying about

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Reticulation Product Range

The Eskom Range of Metering and Distribution Kiosks PPS has been extensively audited and has worked closely with Eskom''s design department. We are an approved vendor of all Eskom-type

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

TECHNICAL SPECIFICATION FOR LT DISTRIBUTION BOX

KV 1. DESCRIPTION OF MATERIALS:- The L.T. Distribution Cabinets shall be installed on D.P. Structure for Plinth Mounted 33/.4 KV Substation of the ratings indicated above. These Distribution

Distribution Box

Distribution Box Space and cost saving solution Amphenol LTW''s distribution boxes facilitate efficient cable management, easy installation with pre-wired configuration, and provides a centralized

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

Requirements And Specifications For Installation Of Distribution Boxes ...

In flammable and explosive environments, explosion-proof distribution boxes should be selected and explosion-proof treatment should be carried out. The installation of explosion-proof

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Discover competitive electrical panels distribution box prices for efficient power management in commercial and industrial settings. Safety tips included.

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Technical inquiry: https://fdsoluciones.es/project-enquiry.html

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

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