Distribution box dimensions and prices refer to standard pricing

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

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Detailed pricing guide for small distribution boxes featuring comprehensive product specifications, safety certifications, and value-added services. Includes various models for residential and commercial

Distribution Box

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

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Distribution Box

Plastic Electrical Box, also known as a consumer control unit or electricity control unit. It is a device that is a type of distribution board that helps in protecting cables from overload and then damage or

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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.

Understanding the Distribution Box Dimensions: A ...

What are the standard dimensions for a distribution box? A 1-8P box typically measures 12 x 8 x 4 inches, ensuring proper fit, safety, and compatibility with electrical panels and mounting surfaces.

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.

Electrical Control Panels & Distribution Boxes: Sizes, Types, and ...

Electrical control panels and distribution boxes are the backbone of modern electrical systems. From powering homes and industrial facilities to supporting medium-voltage infrastructure,

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How to Install a Distribution Box—A Comprehensive Instruction

What is a Distribution Box? First of all, you need to have a simple understanding of the definition of a distribution box, and make it clear which kind of distribution box you want to install.

How to choose the size of distribution box? What kinds

Because there are many standards for the scale and model of indoor distribution box, and the structure and performance parameters of indoor distribution box are

Electrical DB Box Size Guide 2026

Find the right electrical DB box size for your home or project. Learn standard dimensions, NEC 2026 compliance, and key specs. Click to get expert

Distribution Boxes Explained: Types, Functions, and

Learn about distribution boxes, their types, functions, and safety features to ensure efficient and secure electrical power distribution in any building.

Understanding Distribution Boxes: A Comprehensive

A distribution box, also known as a power distribution box or electrical distribution box, is used to distribute electrical power safely to multiple

Distribution board

A distribution board (also known as panelboard, circuit breaker panel, breaker panel, circuit breaker, electric panel, fuse box or DB box) is a component of an electricity supply system that divides an

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

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