Basic Dimensions of Small Distribution Box



Overview

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

Key Takeaways

Small distribution boxes typically range from 65 x 65 mm to 361 x 254 mm, with various mounting options and 1-way to 36-way configurations depending on the model and application.

Dimensions

Small distribution boxes are available in a variety of sizes to accommodate different numbers of circuits and installation spaces. Common dimensions for compact units include: Width: 65 mm to 361 mmHeight: 65 mm to 254 mmDepth: Varies depending on the number of ways and internal components, typically 50 mm to 150 mm For example, consumer control units or single-phase distribution boards often have a compact footprint suitable for wall-mounted installations in residential or light commercial settings.

Number of Ways

Distribution boxes are classified by the number of ways, which indicates how many circuit breakers or modules they can accommodate: 1-way to 12-way: Common for small residential or single-phase applications12-way to 36-way: Used in larger residential or light industrial setups The number of ways directly affects the internal layout and overall dimensions of the box.

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Material and Protection

Material: Typically made of high-quality plastic or metal, providing insulation and durabilityProtection rating: Many small boxes offer IP20 to IP65 protection, depending on whether they are intended for indoor or outdoor use Mounting OptionsFlush mounting: Installed inside the wall for a clean, integrated lookSurface mounting: Mounted on the wall surface, easier for maintenance and upgrades Additional SpecificationsInternal components: Include neutral and earth copper bars, guide rails, and coversVoltage rating: Usually designed for low-voltage applications (220–240V single-phase or three-phase systems)Compliance: Designed to meet industry safety standards and local electrical codes SummaryWhen selecting a small distribution box, consider the number of ways, installation type, protection rating, and available space.

Compact boxes are ideal for residential or light commercial use, while larger multi-way boxes suit industrial or high-demand applications. Always verify dimensions and specifications against your project requirements to ensure proper fit and compliance.

Article Content

Electrical DB Box Size Guide 2026

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Common Electrical Enclosure Sizes

Explore the wide range of common electrical enclosure sizes, including small, medium, large, wall-mounted, and specialized enclosures, and understand the factors influencing size selection.

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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In this article, we will explore the specifications for household distribution boxes and provide guidance on how to install them correctly.

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Eaton xEnergy Basic EWK small distribution board. Wall-mounted enclosure EWK complete, IP31, 36 SU, protection class II, HxWxD=500x300x230mm

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.

Standard Box Sizes: Size Charts & Dimensions

Find standard box sizes for shipping, retail, and moving. Includes size charts in inches & cm, carrier limits, and a free box size calculator.

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.

How to Choose the Right LV Distribution Box

6) Conclusion With regard to the technical specifications, safety features, and cost-effectiveness, the Delixi CDPZ50 Series Small LV Distribution Box is perhaps the most efficient and

How to Install a Distribution Box—A Comprehensive Instruction

Whether you are an electrical contractor or a construction brigade, knowing how to properly and safely install distribution boxes is the basis of ensuring the safe operation of the entire

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Distribution Box

The DB-ST series distribution box can be equipped with various modular electrics for the function of terminal power distribution. It is widely used in low voltage distribution networks for power supplying

Electrical Distribution Box Design Guide

The document provides details for designing the electrical distribution box and circuits for a residence. It includes specifications for the main circuit breaker such as size, type, and tripping capacity. It also

A comprehensive understanding of distribution box

For homes, a small box with basic safety tools works well. Factories need bigger boxes with more circuits and better safety features. Always choose a box that matches your needs to avoid

How to Choose a House Distribution Box | CHINT global

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

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

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