

Standard dimensions of a standard Class I electrical distribution box



Article Overview

A standard Class I electrical distribution box typically measures around 4 inches wide × 4 inches tall, with depths ranging from 1-1/2 inches to 3-1/2 inches, depending on wire capacity and device type.

Typical Dimensions

For single-gang residential or light commercial applications, the standard Class I distribution box dimensions are approximately:

- Width: 2-4 inches
 - Height: 4 inches
 - Depth: 1-1/2 to 3-1/2 inches, with deeper boxes used for multiple wires or larger devices
- For multi-gang boxes (housing two or more switches or outlets side-by-side):
- 2-gang: ~4 inches wide × 4 inches tall
 - 3-gang: ~6 inches wide × 4 inches tall
 - 4-gang: ~8 inches wide × 4 inches tall
 - Depths vary similarly to single-gang boxes to accommodate wiring and maintain NEC fill requirements .

Considerations for Selection

- Internal Volume: The usable space inside the box is reduced by wall thickness, mounting hardware, and gaskets, so always check the internal volume for proper wi...

Article Content

Electrical Box Dimensions: Find the Right Size for Any

Learn standard electrical box dimensions for outlets, switches, and junction boxes.

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,

Electrical Box Size Chart: Standard Dimensions for Panels & Junction

View a complete electrical box size chart with standard dimensions. Learn how to choose the right box size for

Electrical Enclosure Sizes: Comprehensive Guide to

Find the right electrical enclosure size for any project. This guide covers standard sizes,

Common Electrical Enclosure Sizes

Explore the wide range of common electrical enclosure sizes, including small, medium, large, wall-mounted, and

Electrical Box Types & Sizes for Receptacles

types of electrical receptacles (wall outlets or wall plugs): how to choose the right type of electrical receptacle when adding or

Electrical DB Box Size Guide 2026

Find the right electrical DB box size for your home or project. Learn standard dimensions,

Hoffman SX7E884 | UI Class I, Div 1 Group C, D Junction Box,

Hoffman SX7E884 | UI Class I, Div 1 Group C, D Junction Box, Size/dimensions: 11.5X11.5X6.5In, Material: Aluminum

IEC / BS 7671 Codes for Consumer Unit and Distribution Board

Good to Know: The IEC 60364 “Low-voltage electrical installations” equivalent for EU is HD 60364. IEC 60364 address residential

Standard Electrical Enclosure Sizes: Chart, Dimensions & Selection ...

Electrical enclosure sizes are not universal, but most manufacturers follow common size families. This guide explains

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

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

What Is The Size Of A Standard Electrical Box | Storables

Learn about the standard size of electrical boxes in this insightful article. Discover

TECHNICAL SPECIFICATION FOR LT DISTRIBUTION BOX

1) The L.T. Distribution Boxes should be of the dimensions as per the drawing & details in the table furnished. 2) The bidders can

Outdoor Electrical Distribution Box Specifications: NEC

Complete specification guide for outdoor electrical distribution boxes covering NEC Article

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

Ultimate Guide to Electrical Junction Box Dimensions and Compliance

Explore NEC-based standards, box dimensions, material guidelines, and installation precision in this complete

TECHNICAL SPECIFICATIONS FOR A. C. DISTRIBUTION BOARD

4.2 General Requirements: 4.2.1 Each Distribution Board shall be free standing floor mounted having compact design. The Board

Electrical Distribution Box Design Guide

The document provides details for designing the electrical distribution box and circuits for a residence. It includes specifications for

Class 1 Div 1 Junction Box Sizing Guide for Engineers

This comprehensive class 1 div 1 junction box sizing guide provides engineers and technicians with the technical

TECHNICAL SPECIFICATION I.R.O. 63,100,160 & 315 KVA

4 Applicable Standards: IS :13947/ (Part 3) (amended upto date) for Isolator (Switch Disconnector) IS: 8623 (amended upto date) for

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

Explosion Proof Device Box

The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional

2026 NEC Electrical Junction Box Sizes Guide: Calculator + Code ...

These are the standard-sized boxes used for mounting single electrical devices such as light switches or outlets in US

Electrical Enclosure Box Sizes and Selection Tips

Explore standard electrical enclosure box sizes, learn how IP ratings and materials affect design, and calculate the

ABB Consumer Units & Distribution Boards | PDF

This document provides information on ABB's consumer units and distribution boards, including ordering details. It describes various

PowerPoint Presentation

We can also design & supply distribution boards to any non standard requirements. Please contact our sales/design department

Distribution Design and Construction Standard

Introduction This Distribution Design and Construction Standard for Kiosk Substations and Switching Stations contains the approved

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