

National Standard Concealed Electrical Box Dimensions Single Row



Article Overview

A standard single-gang concealed electrical box typically measures 2.25 inches wide × 3.75 inches high, with a depth ranging from 1.5 to 3.5 inches depending on wire volume requirements.

Standard Dimensions

- Width: 2.25 inches
- Height: 3.75 inches
- Depth: 1.5 to 3.5 inches, adjustable based on the number of conductors and device type (e.g., GFCI outlets, smart switches) These dimensions are designed to accommodate standard cover plates and ensure compliance with NEC wire-fill guidelines. Depth is the primary variable, as it determines the internal volume available for wiring and splicing .

Material Considerations

- PVC Boxes: Common in residential new work; non-conductive and often include integrated mounting nails. Wall thickness may slightly increase the rough-in opening .
- Galvanized Steel Boxes: Used for surface-mount applications or where higher durability is required. They often allow "ganging" to combine multiple units side by side .

Multi-Gang Expansion...

Article Content

Feb 23, 2026

Microsoft Word

Product Overview Digital Electric Systems offer Standard Modular Enclosures (DIN Rail Row type DB) for LV Distribution Boards that

Sep 25, 2025

Electrical Box Types & Sizes for Receptacles

The National Electrical Code Article 314 contains complete details and tables of electrical box sizes in dimensions and cubic inches

May 20, 2026

Ultimate Guide to Electrical Junction Box Dimensions and Compliance

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

Apr 24, 2026

NEC Reference Metallic Boxes

NEC® Reference Article 314 of the National Electrical Code® covers the installation and use of boxes. The article includes table

Jan 03, 2026

Standard Electrical Outlet Box Dimensions [Sizing Guide]

Learn standard electrical outlet box dimensions for single and multi-gang installs. Master NEC volume rules for a

Oct 09, 2025

Standard Device Electrical Box Measurements: Complete Sizing Guide

Learn the exact measurements of a standard device electrical box for single, double, and multi-gang setups. Ensure

Nov 19, 2025

Zones for Concealed Cables in Walls, BS7671 Wiring Regulations

Prescribed zones for cables concealed in walls as specified in BS7671 Wiring Regulations, previously known as Safe Zones

Oct 22, 2025

A Complete Guide to NEC Article 314 on Electrical Boxes and Conduit

NEC Article 314 establishes requirements for the installation and use of electrical boxes, conduit bodies, fittings, and

Jun 15, 2026

Single Gang Boxes – Standard & Deep Dimensions and Cubic Inch

Single Gang Boxes – Standard & Deep Dimensions and Cubic Inches ... Extensions and Extension Adapters are used to provide

Sep 28, 2025

Choosing Electrical Boxes

There is a huge selection of electrical boxes, varying by size, shape, mounting device, and composition. One of the first distinctions

Nov 29, 2025

Concealed Box, GI Modular Box, Metal Box Electrical

Our 12 modular box and other concealed box sizes come with precise cutouts for efficient wiring, reducing

Sep 27, 2025

Electricity meter boxes

An electricity meter box provides a secure waterproof container for your electrical equipment. There are different styles of meter

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What Are the Standard Electrical Outlet Box Dimensions?

Electrical outlet boxes are protective enclosures designed to house and protect wiring connections and installed

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Gang Plate and Switch Plate Mounting Dimensions

American-style Wall Plates (also known as Switch Covers or Outlet Covers) are typically a standard height (4.5" - 11.43cm), and

Dec 21, 2025

A Complete Guide to NEC Article 314 on Electrical Boxes and Conduit

Box Fill and Conductor Space Limits (NEC 314.16) Electrical boxes must provide sufficient space for conductors and

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ABB British Standard wiring accessories

BS box 1-gang - Standard 35 mm Dimensions: 72x72x35 mm Screw distance: 60,8 mm Knockouts size: 20 and 25 mm Includes

May 21, 2026

Electrical Boxes (British Standard) | BS 4662 Metal & Plastic Boxes

Explore high-quality Electrical Boxes (British Standard), compliant with BS 4662. Available in metal and plastic for residential and

May 10, 2026

Major types of electrical boxes Technical specifications

Technical specifications There are 10 major types of electrical boxes used in Canada. All these types of boxes serve specific

Apr 23, 2026

Electrical Enclosure Box Sizes and Selection Tips

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

Oct 24, 2025

DOMESTIC ELECTRIC METER BOX

DOMESTIC ELECTRIC METER BOX - SINGLE PHASE The standard electric meter box is used to house all single-phase electric

Jul 29, 2025

Concealed Metal Box

Featuring a metallic material, this material comes in multiple modules for user convenience and comes as a single for individual

Dec 28, 2025

26 05 33.16 Boxes for Electrical Systems

National Electrical Manufacturers Association (NEMA) OS-1 Sheet-Steel Outlet Boxes, Device Boxes, Covers, and Box Supports FB

Jun 04, 2026

1 and 2-row metal boxes Cat. No(s): 4 014 41/42/43/44/45/46

1. DESCRIPTION, USE e cabinets (1-row box), control panels a For installation in dry partition walls. These boxes

Jan 01, 2026

Electrical Boxes

Electrical Boxes: Junction Box, Outlet Box, Single Gang, 2 Gang Electrical Boxes vary in size, material,

Jan 11, 2026

Sheet Metal Enclosures Distribution Boards Minicenter Compact

Top extension boxes for surface mounting with Din-Rail Top / bottom extension boxes for flush mounting with back plate Top / bottom

Contact Us

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