

Dimensions of a 40-Circuit Distribution Box



Article Overview

A 40-circuit distribution box typically measures around 2000-2200 mm in height, 600-800 mm in width, and 300-400 mm in depth, depending on manufacturer and internal layout.

Typical Dimensions

For a 40-circuit panel, which is often used in modern residential or light commercial installations, the external dimensions generally fall within these ranges:

- Height: 2000-2200 mm for freestanding units; wall-mounted units may be slightly shorter depending on design .
- Width: 600-800 mm to accommodate two rows of 20 circuit breakers each, plus space for busbars, neutral and earth bars .
- Depth: 300-400 mm to allow sufficient wiring space, bend radius for incoming cables, and clearance for DIN rail-mounted breakers . Wall-mounted 40-circuit boxes are often arranged in two rows of 20 breakers, with extra space for future expansion, wiring, and heat dissipation . The internal layout must also consider the size of the main breaker, RCDs, or RCBOs, as well as cable entry points.

Design Considerations

- Internal spacing: Ensure enough room for wiring, busbars, and safe separation between live parts....

Article Content

Jan 15, 2026

Calculate Size of Main ELCB & Branch MCB of Distribution Box

Design Distribution Box of one House and Calculation of Size of Main ELCB and branch Circuit MCB as following

Nov 28, 2025

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

Get it right the first time with this comprehensive guide If you're like most electrical professionals, picking the right

Jan 12, 2026

High Quality MCB Distribution Box Size / 4/6/8/12/14/16/20/24 Ways

High Quality MCB Distribution Box Size / 4/6/8/12/14/16/20/24 Ways, Find Details and Price about Distribution Box and Junction Box

Jun 28, 2026

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

Jan 15, 2026

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

This guide explores control panels, electrical boxes, breaker panels, bus bars, junction boxes, and custom enclosures

Mar 26, 2026

Distribution Boards

Mirage sub-main distribution boards have been designed for easy handling and quick, simple installation

Sep 18, 2025

BR2040B200INT | Eaton BR main breaker loadcenter | Specifications

BR style 1-inch loadcenter, interior, 200A, single-phase, 40-pole, 40 circuits, 20 spaces, 120/240V, #2/0-300 kcmil Cu/Al at 60°C or

Jul 23, 2026

Distribution Boards & Consumer Units

Clear detailed description of each size and easy to select with the ordering codes.
Box with four studs and adjustable nuts for easy fit

Jun 20, 2026

Distribution Board, Enclosure System & Electrical Products

For project pricing and drawings for construction approval, we are able to help provide a solution for your distribution board

Apr 22, 2026

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,

Nov 02, 2025

How to determine your panel size

Your home gets its electrical service from the electric grid, and distributes it to the individual circuits and wall outlets in your home

Jun 22, 2026

Use Walton DB box of correct size and thickness | Walton Blog

The electricity is distributed through the breakers in the secondary circuits once the wire is connected to the distribution board. This

Nov 08, 2025

How to Size a Load Center, Panelboards and

In short, a panelboard or distribution board is a collection of protective devices such as circuit breakers,

Aug 12, 2025

Ex9xg Catalogue 2024

The Ex9XG series plastic distribution box is suitable for construction sites, outdoor charging stations parking lots, shops, gardens,

Oct 01, 2025

Electrical Distribution Box Design Guide

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

Jan 05, 2026

Distribution box catalogue | PDF

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

Jun 23, 2026

Distribution Boxes Technical Data

DC Micro Style Distribution Boxes Four-pin, One Signal per Port Cable Connector
Distribution Box Eight-port DC Micro Distribution

Jun 24, 2026

Final Power Distribution Boxes | Product Catalog | CHINT Global

Compact final distribution boxes for safe, accessible, and precise power control across all electrical environments.

Aug 28, 2025

Distribution Box

Distribution Box Space and cost saving solution Amphenol LTW's distribution boxes facilitate efficient cable management, easy

Feb 19, 2026

Distribution Boards

Easy Installation of outgoings The design of the pan assembly facilitates the installation of outgoing devices. Availability of mixing

Dec 17, 2025

Distribution box | PDF

This document provides specifications for various types of plastic distribution boxes, including their

Dec 11, 2025

Eaton XBoard Distribution Box

The Power of Eaton Eaton's power distribution systems are designed to be as compact and energy efficient as possible while easy

Jul 18, 2026

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

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

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://greatpremiersolutions.co.za>

Email: sales@greatpremiersolutions.co.za

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

