

What size is an 18-circuit distribution box

Article Overview

An 18-circuit distribution box typically measures 335 x 225 x 110 mm (LxWxH).

The HT-18 waterproof distribution box, designed for 18 circuits in a single-row layout, has overall dimensions of 335 mm in length, 225 mm in width, and 110 mm in height. It features a side-opening hinged cover and is made of ABS/PC materials, making it suitable for both indoor and outdoor applications with an IP65 protection rating . This size accommodates 18 MCBs or RCBOs in a single row, with additional space for neutral and earth bars.

Key Considerations

- o Circuit Layout: The 18 circuits are arranged in a single row, with 12 holes for the zero row and 12 holes for the ground row, ensuring organized wiring .
- o Mounting: Wall-mounted installation is standard, and the box provides sufficient internal space for cable entry, bend radius, and future expansion .
- o Protection and Material: IP65 rating ensures dust-tight and water-resistant protection, suitable for outdoor or harsh environments. The ABS/PC construction provides durability and impact resistance .
- o Standards Compliance: Distribution boxes should comply with IEC 61439 and other regional electrical standards for safety and performance .

Practical Tips

- o Always verify the internal usable space before installation, as wall thickness, busbars, and mounting hardware reduce the effective area for wiring .
- o Consider leaving 10-20% spare capacity for future circuit additions or modifications .
- o For outdoor installations, ensure proper sealing and cable gland selection to maintain the IP65 rating . This size is typical for residential, commercial, or light industrial applications requiring 18 outgoing circuits, providing a balance between compact footprint and sufficient wiring space.

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find

Here we describe matching 15-Amp receptacles to 15-Amp circuits, 20-Amp receptacles to 20-Amp circuits, two-wire receptacles

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Example: Need a circuit for your 1,800W microwave? Raw amps: $1,800W \div 120V = 15A$ Adjusted for safety: $15A \div 0.8$

A distribution board or distribution panel (DP) is an important part of an electricity supply system. Its job is to split an incoming

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars,

This guide explains standard electrical box dimensions by type, compares common sizes, and helps you select the

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

What are the overall dimensions of the HT-18 waterproof distribution box? 335 × 225 × 110 mm (L×W×H). How many circuits does

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The size and number of circuits in the distribution box should match your needs. If you're

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If you're like most electrical professionals, picking the right distribution box for your project can feel like navigating a

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