

Distribution Box Number



Overview

Distribution Box and Selection Guide: Internal Structure, Components. Learn how to choose a distribution box and understand its internal structure, inclu.

Key Takeaways

A distribution box number, often called the "way," indicates how many individual circuits or protective devices (like breakers or fuses) the distribution board can accommodate.

Understanding Distribution Box Numbers

The "number" of a distribution box, commonly referred to as its way count, represents the total number of slots available for circuit breakers or fuses. For example, a 6-way distribution board can house six individual protective devices, each controlling a separate circuit . Each way typically protects one final circuit, such as lighting, sockets, or appliances, ensuring safe and organized power distribution .

Types and Ranges

Distribution boards can range from 2-way to 36-way or more, depending on the building's electrical requirements . Smaller boards (2-6 ways) are common in residential settings, while larger boards (20-36 ways) are used in commercial or industrial installations. The number of ways also affects the board's ability to handle single-phase or three-phase power systems .

Components and Safety Features



Each way in a distribution box usually contains a miniature circuit breaker (MCB), residual current device (RCD), or residual current breaker with overcurrent protection (RCBO) . These devices protect individual circuits from overloads, short circuits, and earth faults. Modern boards may also include busbars, a main switch, and grounding connections to ensure safety and compliance with electrical regulations .

Practical Considerations

- Selecting the right way count: Choose a distribution box with enough ways to accommodate all circuits, including future expansions.
- Phase type: Ensure compatibility with single-phase or three-phase supply.
- Safety compliance: Boards should meet local electrical codes and include proper protective devices for each circuit.
- Labeling: Each way should be clearly labeled to identify the circuit it protects, aiding maintenance and troubleshooting .

In summary, the distribution box number or way count is a key specification that determines how many circuits a board can safely manage, directly impacting electrical safety, system efficiency, and future scalability.

Article Content

Distribution Boxes Technical Data

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

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

