

# What are distribution boxes used for



## Article Overview

Distribution boxes are used to safely receive electrical power from a main supply and distribute it to multiple circuits while protecting and organizing the electrical system.

### Primary Functions

A distribution box, also called a DB box, distribution board, or panel board, serves as the central hub of an electrical system. Its main functions include:

- **Power Distribution:** It receives electricity from the main supply and allocates it to various branch circuits throughout a building or facility, ensuring each circuit receives the correct voltage and current .
- **Circuit Protection:** It houses protective devices such as circuit breakers, fuses, residual current devices (RCDs), and surge protective devices (SPD), which prevent damage from overloads, short circuits, or electrical surges .
- **Organization and Control:** It organizes electrical connections, making maintenance easier and reducing the risk of electrical hazards. Switches and isolators allow circuits to be safely turned off for repairs or upgrades .
- **Safety Enhancement:** By separating circuits and providing protective devices, distribution boxes reduce the risk of electric shock, fire, and equipment damage .

### Applications

Distribution boxes are widely used across different environments:

- **Residential:** For homes, they manage lighting, power outlets, and small appliance...

## Article Content

### What Is an Electrical Distribution Box? A Complete Guide

An electrical distribution box routes power, prevents overloads, and keeps wiring organised—essential for safe, efficient home and

### Power Distribution Boxes Explained Simply

A power distribution box (also called PDU or distro) directs electricity from a main source to multiple circuits. It acts

### What Is a Distribution Box and Why Does It Matter in Modern

A distribution box is one of the most critical components in any electrical installation, whether residential, commercial,

### Distribution Boards

Distribution boards, often referred to as electrical panels or breaker boxes, serve as the nerve center of any electrical system. Here

### Distribution board

A distribution board (also known as panelboard, circuit breaker panel, breaker panel, circuit breaker, electric panel, fuse box or DB

## Contact Us

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