

Electric distribution box in each household



AI Overview

A household electrical distribution box safely divides incoming power into circuits, protecting your home from overloads and short circuits while enabling efficient electricity management.

What is a Distribution Box?

A distribution box, also called a consumer unit, electrical panel, or breaker panel, is the central hub of a home's electrical system. It receives electricity from the main supply and distributes it into smaller circuits for lighting, sockets, and high-power appliances, ensuring safe and organized power delivery throughout the house. Despite regional differences in terminology, the function remains the same: to protect wiring and users from electrical hazards.

Key Components

- **Main Switch:** Controls the entire electrical system, allowing for quick shutdown during emergencies or maintenance.
- **Circuit Breakers:** Protect individual circuits from overloads and short circuits by automatically cutting off power when necessary.
- **Bus Bars:** Conductive metal strips (copper or aluminum) that distribute power from the main switch to individual circuits.
- **Safety Devices:** Modern boxes often include RCBOs (Residual Current Breaker with Overload protection) and Surge Protection Devices (SPD) to guard against electrical...

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Overview of household distribution box

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Learn how 9 basic electrical parts often seen in your household circuit. See how Fuse, Trip, Main Switches create the

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A distribution board (commonly called a consumer unit in domestic installations) is the central point where the

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Distribution Boards

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

Contact Us

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