

The main electrical distribution box in the home



Article Overview

The main electrical distribution box, also known as the electrical panel or breaker box, safely distributes electricity throughout a home and protects circuits from overloads.

Overview and Function

The main electrical distribution box is a central hub where electricity from the utility company enters your home. It is typically a rectangular metal or plastic enclosure that houses the main switch and multiple circuit breakers or fuses, each controlling a specific circuit in the house. The main switch allows you to shut off power to the entire home in emergencies, while individual breakers protect circuits from overcurrent, short circuits, or electrical faults. Modern panels may also include residual current devices (RCDs) and surge protection devices to prevent electric shocks and protect appliances from voltage spikes.

Components

- **Main Switch/Main Breaker:** Controls the entire electrical supply to the house and isolates both live and neutral wires.
- **Circuit Breakers:** Automatic switches that protect individual circuits by tripping when current exceeds safe limits.
- **Bus Bars:** Conductive bars that distribute electricity from the main breaker to individual circuit breakers

Article Content

Distribution switchboards

Distribution switchboards, including the Main LV Switchboard (MLVS), are critical to the dependability of an electrical

Mains Electric Box: What Is It and What Does It Do?

A mains electric box, also known as a distribution board or consumer unit, is a critical component of an electrical

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

Complete Guide For Distribution Boxes Types

Distribution boxes, also known as electrical distribution boards or panels, are pivotal components in electrical systems, ensuring the

How House Electricity Works: From Panel to Protection

The main electrical panel, commonly called the breaker box, is the central distribution point for all power inside the

What Is A Distribution Board and How Does It Work? | TOSUNlux

Do you wonder how electric power is distributed in different parts of your home? Well, a distribution board or

How to Choose a House Distribution Box | CHINT global

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

What are Distribution Boards?

A distribution board is a part of an electrical system that takes electricity from a main source and feeds it through one or more circuits

Understanding Your House's Electrical Panel: A Visual

The electrical panel, also known as a breaker box or distribution board, is where all the electrical circuits in

How a Home Electrical System Works

The main electrical panel serves as the central hub for distributing electricity throughout the home. It receives power

Distribution Board Explained: How a Consumer Unit is Wired

The distribution board is the heart of every electrical installation. This guide explains what's inside a consumer unit,

Distribution Box Guide: Types, Components & Solutions

The primary function of a distribution box is to route electricity from the main supply to different circuits throughout a

Distribution Box Guide: Types, Components & Solutions

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

Understanding Your Home Electrical System

Electrical Service Panel Home Wiring System Electrical Outlets and Receptacles Extension Cords Introduction Electricity plays an

Your Electrical Distribution Board – Basis

Understand the importance of switchboards in your home, including three key components, and why regular

The Main Electrical Panel & Subpanels

A guide to how your home receives and distributes electrical current to lights, receptacles, and appliances.

Electric power distribution

A 50 kVA pole-mounted distribution transformer Electric power distribution is the final stage in the delivery of electricity. Electricity is

Distribution Box: Types and Functions | Axis-Electricals

A distribution box ensures that electrical supply is distributed in the building, also known as a distribution board, panel board, breaker

Distribution board

In the United Kingdom, BS 7671 defines a consumer unit as "A particular type of distribution board comprising a type tested

Contact Us

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