

Main distribution box switch box and sub-distribution box



Article Overview

A switch box is a compact enclosure for localized power control, a main distribution box (MDB) is the central hub distributing power to an entire building, and a sub-distribution box (SDB) distributes power to specific sections from the MDB.

Switch Box

A switch box is a small, portable, or fixed enclosure designed to manage and protect electrical connections in a localized area. It typically contains switches, miniature circuit breakers (MCBs), fuses, and sometimes outlets. Switch boxes are often used in temporary setups, workshops, or outdoor environments where flexible and safe access to electricity is needed. They provide basic protection against overloads and short circuits and are usually weather-resistant for durability .

Main Distribution Box (MDB)

The Main Distribution Box, also called a Main Distribution Board, is the primary control panel for an entire building or facility. It receives high-voltage, high-amperage power directly from the utility or main transformer and distributes it to multiple sub-distribution boards or major electrical loads. Key components include the main incoming breaker, busbars, outgoing feeders, and protective devices like MCBs or MCCBs. MDBs are essential in large residential complexes, commercial buildings, industrial plants, and power stations, handling high fault currents and ensuring overall electrical safety .

Sub-Distribution Box (SDB)

Article Content

ABB I Sub distribution boards

Starting from compact boards for energy distribution applications up to floor standing energy supplying switchboards for huge sites of

Different Types of Distribution Boards & Their Uses Explained

Among the types of DB boxes, the sub-distribution board draws power from the MDB box and distributes it to localised circuits in

Complete Guide For Distribution Boxes Types

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

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