

What model of primary distribution box



Article Overview

A primary distribution box is the main electrical enclosure that receives power from a transformer and distributes it to secondary circuits, typically featuring main busbars, metering, and protective devices.

Overview

The primary distribution box serves as the main hub in a building or facility's electrical system, usually located in a distribution room. It receives low-voltage power from the transformer (commonly 0.4 kV in residential or commercial setups) and distributes it to secondary distribution boxes or sub-panels for further distribution to equipment or individual units . Unlike secondary or tertiary boxes, the primary box does not directly supply power to devices but manages the main circuits safely and efficiently .

Key Features

- **Main Busbars:** Copper strips or bars that provide a reliable connection for incoming and outgoing circuits .
- **Metering Systems:** Integrated meters for monitoring voltage, current, and energy usage, ensuring safety and compliance .
- **Protective Devices:** Circuit breakers, fuses, or residual current devices (RCCBs/RCBOs) to prevent overloads, short circuits, and electrical faults .
- **Enclosure Design:** Typically features front-opening doors, bottom cable entry/exit, and rainproof tops for outdoor installations .
- **Material:** Constructed from durable materials such as polycarbonate, ASA, or pow...

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