

Article Overview

Secondary Distribution Boxes (SDBs) in Burkina Faso are modular electrical enclosures designed to distribute power from a main distribution source to branch circuits, typically featuring powder-coated finishes, terminal blocks, and IP-rated protection.

Function and Application

A Secondary Distribution Box (SDB) receives power from a main power distribution box via an extender cable and distributes it to branch circuits, such as electric floor modules or other connected loads. It is commonly used in commercial, industrial, and residential electrical systems to centralize power distribution and facilitate safe wiring management .

Construction and Materials

- o Enclosure Material: Typically made of high-quality steel or powder-coated metal for durability and corrosion resistance .
- o Finish: Powder-coated black finish is standard, providing protection against environmental factors .
- o Insulation: Internal insulation may be included to ensure safe operation and temperature regulation.

Electrical Features

- o Terminal Blocks: SDBs can be fitted with terminal blocks for custom wiring configurations, allowing flexibility in connecting multiple branch circuits .
- o Protection: Many SDBs are designed with IP65-rated enclosures, making them waterproof and dustproof, suitable for harsh environments .
- o Circuit Protection: Some models include MCBs (Miniature Circuit Breakers) to protect individual circuits from overload or short circuits .

Dimensions and Ratings

- o Common Size: Example dimensions include 360x200x110mm, though sizes vary depending on load requirements and installation space .
- o Voltage Handling: SDBs are typically compatible with low-voltage distribution systems, often receiving power from 0.69kV to 35kV transformers in prefabricated substations for larger installations .

Installation

Burkina Faso Secondary Distribution Box Specifications

- o Mounting: Standardized mounting on rails is used for mechanical support of electrical devices within the box, ensuring secure and organized installation .
- o Connectivity: Power is supplied via extender cables from the main distribution box, and branch circuits are connected through snap-on extender cables or terminal blocks .

Additional Considerations

- o Durability: Designed for long-term use with strong structural integrity and corrosion resistance, suitable for outdoor or harsh environments .
- o Customization: Many manufacturers in Burkina Faso offer custom SDBs to meet specific electrical and spatial requirements, including LT distribution panels, load management panels, and outdoor power panels . In summary, secondary distribution boxes in Burkina Faso are robust, modular, and customizable enclosures that provide safe and efficient power distribution from main panels to branch circuits, with features such as IP65 protection, terminal blocks, and durable powder-coated steel construction. They are suitable for both indoor and outdoor installations in residential, commercial, and industrial settings.

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