

Syrian Household Electrical Distribution Box Dimensions



AI Overview

Syrian household electrical distribution boxes typically follow standard residential dimensions, with internal layouts designed for MCBs, RCCBs, bus bars, and grounding, ensuring safe and organized power distribution.

Typical Dimensions

For residential applications, single-family household distribution boxes in Syria generally align with international standards:

- Height: 300–500 mm
- Width: 200–400 mm
- Depth: 100–150 mm

These dimensions accommodate single or multi-gang circuit breakers, residual current devices (RCCBs), and sufficient wiring space for safe conductor routing. Deeper boxes are preferred when multiple circuits or higher wire counts are present, as they reduce overcrowding and improve safety during installation and maintenance.

Key Components

A standard Syrian household distribution box includes:

- Miniature Circuit Breakers (MCBs):** Protect individual circuits from overload and short circuits.
- Residual Current Circuit Breakers (RCCBs):** Detect leakage currents to prevent electric shocks.
- Bus Bars:** Copper or aluminum strips for phase, neutral, and grounding connections.
- Neutral Link and Grounding Bus Bar:** Ensure proper return paths and safety grounding.
- Enclosure:** Typically made of flame-retardant plastic or metal, providing protection against dust, moisture, and physical damage.
- Surge Protective Devices (optional):** Protect sensitive appliances from voltage spikes.
- Indication Lights (optional):** Show mains power availability and status.

Specifications and Standards

- Voltage Rating:** Usually 220–240 V AC for residential circuits.
- Current Rating:** MCBs typically range from 6 A to 32 A per circuit, depending on load.
- Ingress Protection (IP):** IP20 for indoor household boxes; higher IP ratings (IP44 or above) for outdoor or damp locations.
- Material:** Flame-retardant thermoplastic or powder-coated steel for durability and safety.
- Mounting:** Wall-moun...

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Distribution Box and Selection Guide: Internal Structure,

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars, earth bars, RCDs, RCBOs,

Electrical Distribution Box Design Guide | PDF

The document provides details for designing the electrical distribution box and circuits for a residence. It includes specifications for the main circuit breaker such

How to choose the size of distribution box? What kinds

The following is a detailed introduction to the method of choosing the household assembly electric box, the key points are as follows: The first point should be

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