

What are the dimensions of residential electrical distribution boxes in Chad



Article Overview

Typical household electrical distribution boxes in Chad range from 200 × 200 × 120 mm to 400 × 300 × 150 mm, following common international standards.

Standard Residential Sizes

For residential use, wall-mounted distribution boxes (also called breaker panels or DB boxes) generally follow international size families, which are widely available in African markets including Chad. Common dimensions include:

- Small single-family units: 200 × 200 × 120 mm (H × W × D)
- Medium units: 300 × 250 × 150 mm
- Larger multi-circuit units: 400 × 300 × 150 mm These sizes accommodate typical household circuits, including lighting, outlets, and small appliances, while providing enough internal space for wiring, bus bars, and breakers .

Box Types and Features

- Single-gang boxes: Designed for one main circuit or device, often used for small homes or single circuits. Typical dimensions: 2" × 3" × 3.5" (50 × 75 × 90 mm) for very compact installations .
- Multi-gang boxes: Allow multiple breakers or switches in one enclosure, suitable for larger homes or multiple circuits. Depth is critical to avoid overcrowding and ensure safe wire fill

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