

Dimensions of a 25-square-meter household electrical distribution box



Article Overview

For a 25-square-meter home, a typical residential electrical distribution box (DB) ranges from 400–600 mm in height, 300–400 mm in width, and 120–200 mm in depth, depending on the number of circuits and future expansion needs.

Recommended Size and Capacity

For a small residential property of approximately 25 m², the electrical load is generally modest, often requiring a main breaker panel rated at 63–100A with space for 6–12 branch circuits . The physical dimensions of the distribution box should allow sufficient internal volume for wiring, breakers, and safe spacing:

- Height: 400–600 mm
 - Width: 300–400 mm
 - Depth: 120–200 mm
- These dimensions correspond to compact wall-mounted enclosures suitable for residential use, providing enough space for standard single-phase breakers, wiring, and future upgrades .

Internal Volume Considerations

The internal volume is critical for safety and code compliance. A box with at least 18–25 cubic inches ($\approx 300\text{--}400\text{ cm}^3$) of usable space is recommended for a small home, ensuring proper wire fill and heat dissipation . Deeper boxes are preferred if multiple circuits converge or if smart home devices, surge protectors, or residual cu...

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