

# Dimensions and Specifications of Electrical Distribution Boxes for Self-Built Houses



## Article Overview

Electrical distribution boxes for residential use typically range from 200×200×120 mm to 800×600×300 mm externally, with internal volume and depth critical for safe wiring and code compliance.

### Standard Types and Dimensions

**Wall-Mounted Boxes:** Common for self-built houses, these enclosures are available in standardized size families. Typical external dimensions range from 200×200×120 mm up to 800×600×300 mm, depending on the number of circuits, devices, and future expansion needs . Internal usable space is slightly smaller due to wall thickness, gaskets, and hardware, so always verify technical drawings before installation .

**Junction Boxes:** Used for splicing wires or connecting multiple circuits, standard sizes include 4×4 inches with depths from 1.5 to 3.5 inches for residential applications .

**Octagonal or round boxes** are common for ceiling-mounted fixtures, supporting light fixtures and fans while providing safe wiring enclosures .

**Single-Gang and Multi-Gang Boxes:** Single-gang boxes are typically 2×3×3.5 inches, suitable for one switch or outlet, while multi-gang boxes allow multiple devices in one location. Depth is critical for accommodating multiple wires, GFCIs, dimmers, or smart switches .

### Electrical Specifications...

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