

Commonly Used Indoor Electrical Distribution Box Dimensions



Article Overview

Indoor electrical distribution boxes typically range from small single-gang boxes around 2" × 3" × 3.5" to larger multi-gang or wall-mounted enclosures up to 800 × 600 × 300 mm, with depth varying to accommodate wiring needs.

Single-Gang and Multi-Gang Boxes

- Single-gang boxes are commonly used for one switch or outlet, with typical dimensions around 2 inches wide × 3 inches tall × 3.5 inches deep. Depth is critical for wire fill, especially when installing GFCIs, dimmers, or smart switches .
- Multi-gang boxes allow multiple devices side by side. For example, a 2-gang box may be 3–4 inches wide, a 3-gang box 4.5–6.5 inches wide, while maintaining a height of about 4 inches. Depth varies from 1.5 inches to 3.5 inches, depending on wire count and device size .

Junction Boxes

- Junction boxes are used for splicing wires or housing multiple connections. Standard square boxes are often 4 inches × 4 inches, with depths ranging from 1.5 inches to 3.5 inches, providing sufficient internal volume for safe wiring and compliance with NEC wire-fill guidelines .

Wall-Mounted Enclosures...

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Explore standard electrical enclosure box sizes, learn how IP ratings and materials affect design, and calculate the

Contact Us

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