

Common Sizes of Small Distribution Boxes



Article Overview

Small distribution boxes typically range from single-gang to multi-gang units, with dimensions designed to accommodate 1-6 devices, following NEC and IEC standards.

Standard Types and Dimensions

Single-gang boxes are designed for one device, such as a switch or outlet, and are commonly around 2 × 3 × 2.5 inches internally, though external dimensions may vary slightly depending on wall thickness and manufacturer. Double-gang and triple-gang boxes accommodate two or three devices, with widths increasing proportionally while maintaining similar height and depth. Typical small multi-gang boxes range from 4 × 3 × 2.5 inches up to 6 × 4 × 3 inches. Compact wall-mount enclosures for light-duty or low-power applications often fall within 200 × 200 × 120 mm (approximately 8 × 8 × 5 inches) and are suitable for sensor hubs, branch circuits, or small control panels.

Key Considerations

- **Internal vs External Dimensions:** Internal space is critical for fitting devices and wiring, while external dimensions affect wall or panel mounting.
- **Number of Ways:** Distribution boxes are often rated by “ways,” indicating the number of circuit slots, ranging from 1-way to 36-way in larger systems, but small boxes typically cover 1-6 ways.
- **Material and Protection:** Small boxes may be plastic, FRP, or metal, with IP ratings...

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