

Standard Size of In-Home Distribution Box



Article Overview

Typical in-home distribution boxes range from 12-way to 24-way units, with wall-mounted enclosures commonly sized between 200 × 200 × 120 mm and 800 × 600 × 300 mm.

Overview

An in-home distribution box, also called a consumer unit, load center, or electrical panel, is the central point where incoming power is divided into branch circuits for lighting, appliances, and other loads . The box protects wiring and users by housing circuit breakers, RCDs, RCBOs, surge protection devices, and busbars . Choosing the right size ensures sufficient space for current circuits and future expansion, such as EV chargers or solar panels .

Common Sizes and Slot Counts

- Slot counts (“ways”): Residential boxes typically range from 12-way to 24-way, where each “way” accommodates a single circuit breaker. Some slots are reserved for the main switch or surge protection devices .
- Wall-mounted enclosures: Typical external dimensions range from 200 × 200 × 120 mm for compact units up to 800 × 600 × 300 mm for larger residential panels .
- Internal layout considerations: Usable space is slightly smaller than external dimensions due to wall thickness, mounting hardware, and DIN rail placement . Proper spacing ensures safe wiring, heat dissipation, and ease of installation....

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Of course, the size of the electrical box is not finalized. Consider the actual installation, see

Contact Us

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