

Dimensions of a 30-position single-row electrical distribution box



Overview

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Key Takeaways

A 30-position single-row household distribution box typically measures approximately 800–1000 mm in width, 200–300 mm in height, and 100–150 mm in depth, depending on manufacturer and modular design.

A 30-position single-row distribution box, such as the PZ30 series, is designed for indoor residential or commercial use, supporting single-phase or three-phase systems with rated currents up to 100A . These boxes are modular, allowing each position to accommodate a standard miniature circuit breaker (MCB) or residual current device (RCD/RCBO). The single-row layout ensures a compact footprint while providing sufficient space for wiring, busbars, and protective devices .

Typical Dimensions

- Width: Approximately 800–1000 mm to fit 30 modular slots in a single row. Each modular slot is usually 18 mm wide, so 30 slots require around 540 mm plus spacing for side walls and mounting rails .
- Height: Around 200–300 mm, enough to house the MCBs, neutral and earth bars, and allow for safe wiring clearance .



- **Depth:** Typically 100–150 mm, providing adequate space for conductor bending, wire entry, and cover installation . These dimensions may vary slightly depending on the manufacturer, material (metal or plastic), and whether the box is surface-mounted or flush-mounted . The external dimensions include the enclosure walls and cover, while the internal usable space is slightly smaller to accommodate DIN rails, busbars, and wiring .

Installation Considerations

- **Mounting:** Can be flush-mounted or surface-mounted depending on wall type and aesthetic preference .
- **Protection:** Typically rated IP30–IP44 for indoor use, ensuring protection against dust and accidental contact .
- **Future Expansion:** Some designs allow for spare slots or modular expansion if additional circuits are needed .
- **Compliance:** Must meet local electrical codes (IEC 61439, IEC 60670, or NEC standards) for safety and wire-fill requirements .

Summary

For a 30-position single-row household distribution box, expect a width of 800–1000 mm, height of 200–300 mm, and depth of 100–150 mm, with internal layout designed to accommodate standard MCBs, neutral and earth bars, and wiring space. Always verify the exact dimensions with the manufacturer's datasheet before installation to ensure proper fit and compliance with local electrical codes .

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