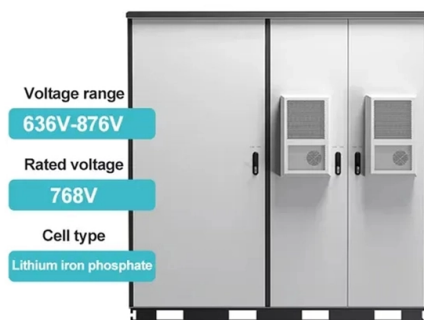


Dimensions of a Home Double-Layer Electrical Distribution Box



Overview

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Key Takeaways

A typical double-layer household electrical distribution box measures approximately 600–800 mm in height, 400–600 mm in width, and 150–300 mm in depth, depending on manufacturer and internal layout. Standard Dimensions

Double-layer or two-tier residential distribution boxes are designed to accommodate multiple circuit breakers and allow for future expansion. Common external dimensions for wall-mounted household boxes are:

- Height: 600–800 mm
 - Width: 400–600 mm
 - Depth: 150–300 mm These dimensions provide sufficient internal volume for wiring, breakers, and safety devices while maintaining compliance with NEC and IEC standards . Depth is particularly important to ensure proper wire fill and ease of installation, especially when multiple conductors are present .
- Internal Layout Considerations
- Layering: Double-layer boxes typically have two rows of breaker slots, allowing separation of main circuits and sub-circuits.

- **Wire Fill Capacity:** Adequate depth ensures that wires can be routed without overcrowding, reducing heat buildup and improving safety .
- **Future Expansion:** Many boxes include extra slots or space for additional breakers, which is important for EV chargers, smart home systems, or other high-amperage upgrades .

Material and Safety Features

- **Construction:** Most household boxes are made of steel or high-impact plastic with fire ratings of 2 hours for wall-mounted units .
- **Protection:** IP44 or higher ratings are common for indoor use, while IP66-rated boxes are used for outdoor or workshop environments .
- **Mounting:** Wall-mounted boxes often include pre-drilled holes or “wing” mounting options for easy installation in existing walls .

Practical Tips

- Always verify the manufacturer's technical drawing for exact external and internal dimensions before installation .
- Consider internal volume and breaker spacing rather than just external size to ensure compliance with local electrical codes and safe wiring practices .
- For residential upgrades, choose a box that allows future expansion without overcrowding, especially if planning for high-amperage circuits or additional smart devices . By selecting a double-layer distribution box within these typical dimensions and considering internal layout, depth, and safety features, you can ensure a safe, code-compliant, and future-proof household electrical installation.

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RANGE & SPECIFICATIONS: Sr. No. Product Code Inside Dimensions (mm] H x W x D Typical Applications

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

