Power Distribution Box Size Chart and Price

Overview

Electrical Box Size Chart: Find the Perfect Fit for Your ProjectNeed the right electrical box dimensions?

Our comprehensive size chart compares metal, plas.

Key Takeaways

Power distribution boxes vary widely in size and price depending on application, amperage, number of circuits, material, and additional features.Sizes and Types

Residential Distribution Boxes: Typically single-phase panels ranging from 12 to 42 circuits, with physical dimensions around 12–24 inches wide, 16–36 inches high, and 4–6 inches deep. Modern residential panels often support 200A or higher to accommodate electric vehicles and smart home systems . Commercial and Industrial Boxes: These are larger, often wall-mounted or floor-standing, with multiple phases (three-phase systems) and higher amperage ratings. Sizes can exceed 36 inches wide, 48 inches high, and 12 inches deep, depending on the number of circuits, breakers, and integrated monitoring equipment . Specialty retrofit or pre-wired units may have high IP ratings (IP44–IP67) for weatherproofing and outdoor use . Consumer-Grade Boxes: Smaller plastic or metal boxes for CCTV, access control, or low-voltage applications are compact, often 6–12 inches per side, and designed for surface or flush mounting .

Price Ranges

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Residential Units: Basic single-phase panels start around $50–$150 for small 12–24 circuit boxes. Larger 200A panels with more circuits and higher-quality materials can range from $200–$500 . Commercial/Industrial Units: Prices vary significantly based on amperage, number of circuits, and features. Standard metal enclosures may cost $500–$2,000, while precision or smart cabinets with branch monitoring, touchscreen interfaces, and remote communication can exceed $3,000–$10,000 . Specialty or Weatherproof Boxes: Outdoor-rated or high IP-rated enclosures carry a premium, often 20–50% higher than indoor-rated units due to corrosion resistance, insulation, and protective features . E-commerce Options: Consumer-grade distribution boxes for low-voltage applications, such as CCTV or access control, are available online for $30–$150, depending on ports, PTC protection, and material durability .

Key Considerations
• Amperage and Circuit Count: Higher amperage and more circuits increase both size and cost.

• Material and Durability: Metal enclosures are more durable; plastic boxes are lighter and cheaper but may have lower protection ratings.

• Installation Type: Flush-mounted boxes require wall recessing, while surface-mounted boxes are easier to install but may be larger.

• Advanced Features: Smart monitoring, remote control, and energy management systems significantly increase price but provide long-term operational benefits .

• Compliance and Safety: Ensure the box meets local electrical codes, IP ratings, and certification standards for your application . In summary, choosing a power distribution box requires balancing size, capacity, material, and features against budget and application needs, with residential boxes being smaller and more affordable, and commercial or precision cabinets offering advanced functionality at higher costs.

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

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