

## Power Distribution Box Size Chart and Price



### AI Overview

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**

**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 ac...

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The document provides details for designing the electrical distribution box and circuits for a residence. It includes specifications for the main circuit breaker such as size, type, and tripping capacity. It also

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Distribution Box Cost Guide: Value & Features

Explore distribution box cost factors, safety features, and budget solutions. Learn how to select the right panel for your needs and budget.

DISTRIBUTION AT THE HEART OF POWER

The forms of separation defined by IEC 61439-2 standard are the barriers to be put in place in distribution assemblies to ensure different levels of protection against contact with hazardous parts.

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