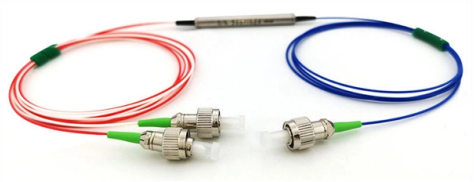
Price of complete power distribution box wiring



Overview

Key cost drivers include panel amperage, indoor vs outdoor location, wiring length, and whether a full panel upgrade or rerouting is needed.

Key Takeaways

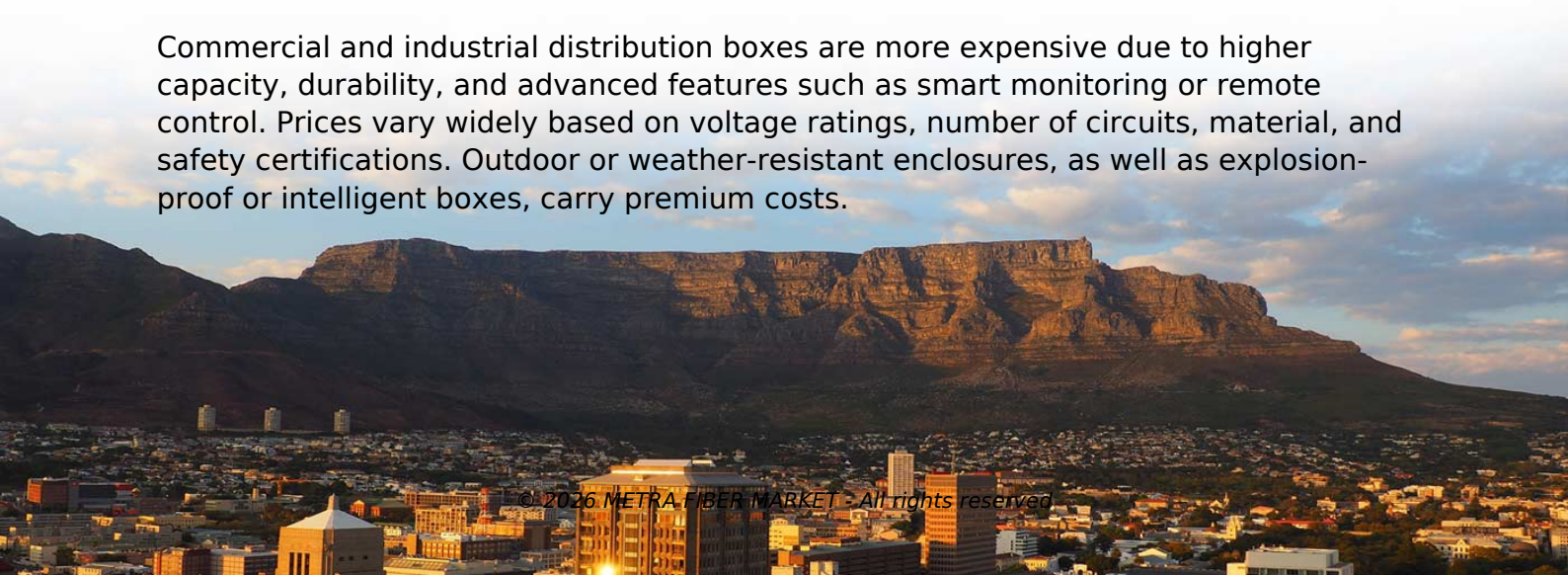
The total cost for wiring and installing a power distribution box typically ranges from $150 to $6,000 depending on type, amperage, complexity, and location.

Residential Distribution Boxes

For standard residential setups, the cost of a distribution box including wiring, breakers, and installation generally falls between $450 and $1,500 for a 100–125A panel. A full replacement with labor, permits, and rewiring can range from $1,200 to $2,500 for indoor panels, while outdoor upgrades with higher amperage (200A) and new meter sockets can reach $3,000 to $6,000. Labor typically accounts for 6–18 hours at rates of $75–$120 per hour, depending on complexity and regional differences.

Commercial and Industrial Distribution Boxes

Commercial and industrial distribution boxes are more expensive due to higher capacity, durability, and advanced features such as smart monitoring or remote control. Prices vary widely based on voltage ratings, number of circuits, material, and safety certifications. Outdoor or weather-resistant enclosures, as well as explosion-proof or intelligent boxes, carry premium costs.



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Industrial steel boxes may cost around $40 per unit, while certified or smart units can be 20–30% more expensive.

Material and Type Considerations

Plastic boxes: Affordable, suitable for indoor residential use, typically $10–$25 per unit. Aluminum or steel boxes: More durable, used in industrial or outdoor settings, $40+ per unit. Weatherproof or IP65-rated boxes: Higher cost due to protection against dust and water.

Smart or intelligent boxes: Include monitoring and control features, increasing upfront cost but offering long-term energy savings.

Additional Cost Factors

Wiring length and gauge: Longer runs or heavier gauge wires increase material and labor costs. Panel amperage: Higher amperage panels require more robust wiring and breakers. Installation complexity: Outdoor installations, rerouting conduits, or replacing old wiring can add to labor hours and costs.

Permits and regional labor rates: Costs vary by location, with urban and coastal areas generally higher than rural regions.

Summary

For a typical residential project, expect $450–$2,500 for a complete distribution box installation including wiring. For commercial or industrial applications, costs can rise significantly depending on capacity, material, safety features, and smart technology, potentially reaching $6,000 or more. Material choice, amperage, installation complexity, and regional labor rates are the main factors influencing the final price.

Article Content

Distribution Box Replacement Cost Guide 2026

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