

Price of a complete electrical distribution box set

Article Overview

A complete electrical distribution box typically costs between \$600 and \$4,500, depending on amperage, enclosure type, labor, and installation complexity.

Cost Breakdown

Unit Price:

- o Basic 100A residential panel with standard metal enclosure: \$400-\$700 for the panel alone .
- o Upgrading to a 200A service: \$1,000-\$2,500 for the panel itself, with high-end panels exceeding \$2,500 .

Installation and Labor:

- o Standard residential installation for a 100-125A indoor panel: \$1,200-\$2,500 including labor and permits .
 - o 200A outdoor upgrades with new meter sockets: \$3,000-\$6,000 depending on wiring complexity and local labor rates .
 - o Labor hours typically range from 4-18 hours, with electricians charging \$75-\$150 per hour depending on region and project complexity .
- Additional Costs:
- o Permits, inspections, and code upgrades can add \$100-\$500.
 - o Complex wiring, long conduit runs, or retrofitting older buildings may increase total costs by 15-20% .
 - o Optional features like surge protection, smart meters, or premium enclosures can further raise the price .

Factors Affecting Price

- o Amperage Rating: Higher amperage panels (200A vs 100A) cost more due to larger breakers and busbars.
- o Enclosure Material: Plastic, powder-coated steel, or stainless steel enclosures vary in durability and price.
- o Location: Indoor panels are generally cheaper than outdoor panels due to weatherproofing requirements.
- o Regional Labor Rates: Urban areas often have higher labor and permit costs, while rural areas may incur transport fees for specialized panels.
- o Project Complexity: Re-routing wiring, replacing meter sockets, or upgrading service entrances increases both labor and material costs.

Typical Total Costs

- o Basic Replacement (100A, 8-12 circuits): \$1,100-\$1,600 including labor and permits .
 - o Mid-Range Upgrade (150A, 12-16 circuits): \$1,600-\$3,200 depending on wiring and local labor .
 - o High-End Upgrade (200A, 16-20 circuits, outdoor, premium features): \$3,000-\$4,500 or more .
- In summary, the price of a complete electrical distribution box varies widely based on panel size, amperage, enclosure type, labor, permits, and optional features, with typical residential projects ranging from \$1,100 to \$4,500 for a fully installed system.



Price of a complete electrical distribution box set

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