Price of enclosed electrical distribution box



Overview

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

Key Takeaways

The cost of a complete electrical distribution box enclosure typically ranges from $400 to over $3,500 depending on size, capacity, material, and installation requirements.

Residential Distribution Boxes

For standard residential applications, a 100-amp load-center with a metal enclosure usually costs $400–$700 for the unit alone, while installation and basic wiring can bring the total to $600–$1,100. Upgrading to a 200-amp service can cost $1,000–$2,000 for the panel itself, with labor adding another $1,000–$2,000, resulting in a total of $1,900–$3,400 depending on service disconnects, meter sockets, and wiring runs. High-end residential panels with advanced safety features or specialty enclosures can exceed $2,500 for the panel alone, with total costs well above $3,500 in some markets.

Commercial and Industrial Enclosures

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Commercial and industrial distribution boxes are generally more expensive due to higher durability, larger capacity, and advanced control systems. Prices vary based on voltage ratings, amperage capacity, number of circuits, material construction, and integrated safety features. Enclosures may include IP54–IP68 ratings, weather resistance, EMC shielding, and heat dissipation features, which can significantly increase costs.

Customization options such as specific mounting configurations, specialized labeling, or integration with building management systems also affect pricing.

Material and Construction

Steel or galvanized metal enclosures with powder coating are common for indoor and outdoor use, offering robust protection and long-term durability. Plastic or polycarbonate enclosures are lighter and may be suitable for smaller installations or modular setups. High-performance diecast aluminum boxes with IP68 ratings can withstand immersion in water and extreme conditions, typically commanding premium prices.

Additional Considerations

Installation costs vary by location, accessibility, and labor rates. Energy efficiency features like smart monitoring or load management may increase upfront costs but reduce long-term operational expenses. Lead times and availability can affect pricing, especially for custom or specialized enclosures.

In summary, a basic residential distribution box can start around $400–$700, while commercial or industrial enclosures with advanced features and customization can exceed $3,500, with total costs influenced by installation, material, and additional functionalities.

Article Content

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

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Distribution Box Cost Guide: Value & Features

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