

Price of power distribution cabinet power distribution box



Overview

How Much Does a Precision Power Distribution Cabinet So, how much does a precision power distribution cabinet cost?

The final price depends on rated current.

Key Takeaways

The price of a cabinet-type power distribution box varies widely, typically ranging from a few hundred to several thousand dollars depending on specifications, customization, and capacity.

Price Range Overview

The cost of a power distribution cabinet is not fixed and depends on multiple factors such as rated current, number of outgoing circuits, breaker brand, monitoring features, cabinet size, IP rating, and customization requirements. For example: Small, basic cabinets for equipment rooms or small server rooms may cost a few hundred to around \$1,000, providing incoming protection and a limited number of branch circuits. Medium-sized cabinets with 24–48 outgoing circuits, higher-quality components, and basic monitoring can range from \$1,000 to \$3,000.

Large or smart cabinets for data centers, telecom hubs, or medical facilities with advanced monitoring, touchscreen interfaces, redundant power architecture, and remote communication can exceed \$5,000–\$10,000 or more.

Factors Affecting Price

Rated Current: Higher current cabinets require larger copper busbars, stronger breakers, and better insulation, increasing cost. **Number of Circuits:** More outgoing circuits mean more breakers, terminals, wiring, and assembly time, which raises the price. **Customization:** OEM branding, IP-rated enclosures (e.g., IP65/IP66), cable entry modifications, and modular designs can significantly affect cost.

Monitoring and Smart Features: Cabinets with branch circuit monitoring, alarms, and remote communication are more expensive than standard enclosures. **Material and Build Quality:** Cabinets made from corrosion-resistant materials like fiberglass-reinforced polyester (FRP) or high-grade steel are priced higher.

Bulk and OEM Pricing

For distributors or large orders, per-unit pricing decreases with higher volumes.

Customization and OE

M branding are available, but lead times may be longer for complex designs. Standard stock items may be shipped quickly, while fully customized cabinets require detailed specifications and drawings for accurate quotations.

Market Trends

The global market is growing due to industrialization, renewable energy integration, and grid modernization. Modular, compact, and smart cabinets are increasingly in demand, which can influence pricing depending on the sophistication of features. In summary, a cabinet-type power distribution box can cost anywhere from a few hundred dollars for a basic unit to over \$10,000 for a fully customized, high-capacity smart cabinet, with the final price determined by technical specifications, customization, and supplier terms.

Article Content

How Much Does a Precision Power Distribution Cabinet

So, how much does a precision power distribution cabinet cost? The final price depends on rated current, circuit count, component brand, smart

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