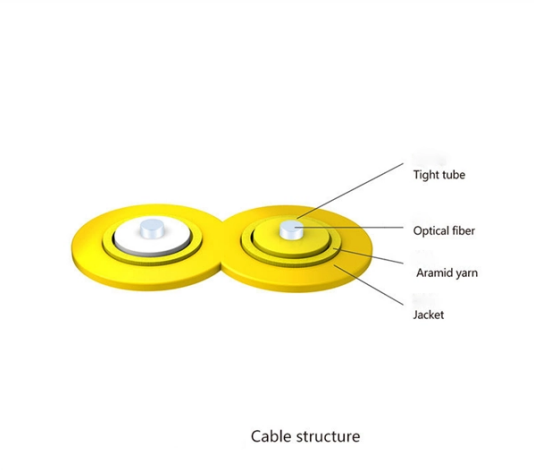
Price of a 5-Story Data Center Power Distribution Box



Cable structure

Overview

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Key Takeaways

The cost of a 5-story data center power distribution box can range from $50,000 to over $250,000 depending on capacity, customization, and features.Cost Factors

The price of a large-scale data center power distribution system depends on several key factors:

• Power Capacity: Units for medium to large data centers typically range from 225 kVA to 950 kVA, with higher capacities commanding higher prices (Delta PDUs) .

• Customization: Multi-story or multi-level distribution boxes often require tailored designs for input/output voltage, number of circuits, and interface types, which increases cost .

• Type of Equipment: Options include rack PDUs, remote power panels (RPPs), busways, and panelboards. High-density or metered PDUs with monitoring capabilities are more expensive .

• Safety and Monitoring Features: Advanced features like surge protection, arc fault detection, remote monitoring, and intelligent load management add to the price .

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• Material and Construction: Corrosion-resistant enclosures, high-grade electrical components, and robust insulation for multi-story installations increase durability and cost .

• Installation and Maintenance: Multi-story installations require additional labor, structural support, and integration with existing infrastructure, which can significantly affect total project cost .
Estimated Price Range
• Basic multi-story panelboard or PDU system: $50,000–$100,000

• High-capacity, fully customized 5-story distribution system with monitoring and redundancy: $150,000–$250,000+

• Additional costs: Installation, commissioning, and ongoing maintenance can add 20–40% to the initial purchase price.
Recommendations
• Contact manufacturers like ABB, Delta, or Vertiv to obtain a custom quote based on your specific data center layout, power requirements, and redundancy needs .

• Consider modular or prefabricated solutions for easier installation and future scalability .

• Evaluate total cost of ownership, including energy efficiency, monitoring, and maintenance, rather than just the initial purchase price . By considering these factors, you can obtain a realistic budget for a 5-story data center power distribution box and ensure it meets both current and future operational requirements.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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