

Price of power distribution box for Dominican data center

Article Overview

A power distribution box for a data center typically costs between \$2,000 and \$15,000, depending on capacity, features, and customization.

Cost Factors

The price of a data center power distribution box varies widely based on several factors:

- o Rated current and number of circuits: Higher amperage and more outgoing circuits increase costs due to larger copper busbars, stronger breakers, and more complex wiring .
- o Cabinet type and features: Basic enclosures are cheaper, while smart cabinets with branch circuit monitoring, touchscreen interfaces, communication modules, and redundant A/B power architecture can cost significantly more .
- o Material and construction: Industrial-grade steel or stainless steel enclosures are more expensive than basic ABS plastic or powder-coated steel .
- o Installation and labor: Professional installation, especially in a data center, can add thousands of dollars to the total cost due to complexity, permits, and testing requirements .
- o Customization and compliance: Units designed to meet IEC 61439 standards or local electrical codes, with environmental protection and monitoring systems, will increase the price .

Typical Price Ranges

- o Small or basic cabinets: \$2,000-\$5,000, suitable for smaller server rooms or low-capacity setups .
- o Medium to large data center cabinets: \$5,000-\$10,000, with multiple circuits, monitoring, and higher-quality components .
- o High-end smart cabinets: \$10,000-\$15,000 or more, featuring advanced metering, remote communication, and future expansion capacity .

Local Considerations in the Dominican Republic

While international pricing provides a baseline, local factors such as import duties, shipping, and labor costs in the Dominican Republic may increase the final price. Additionally, sourcing from regional suppliers or distributors may affect availability and cost. For precise budgeting, it is recommended to request quotes from local electrical suppliers or data center equipment vendors, specifying the required amperage, number of circuits, and desired features. Investing in a high-quality distribution box ensures reliable power delivery, safety, and long-term operational efficiency, which is critical for data center performance and uptime .

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Power and data distribution boxes have terminals for attaching input and output cables to distribute electric power and signal

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Data Center Power Distribution Example Power Flow. Photo: TestGuy. In the modern age of information technology,

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Cabinet PDU with access doors open A power distribution unit (PDU) is a device fitted with multiple outputs designed to distribute



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