Price quote for intelligent power distribution cabinets in universities



Overview

How Much Does a Precision Power Distribution Cabinet Cost?

Pricing. Learn what affects the cost of a precision power distribution cabinet, including rate.

Key Takeaways

Intelligent power distribution cabinets for universities typically range from $1,500 to $10,000+ per unit depending on features, capacity, and customization.

Overview

Intelligent power distribution units (PDUs) and cabinets are essential for university data centers, research labs, and high-performance computing (HPC) clusters. They provide reliable, high-density power distribution, advanced monitoring, and remote management capabilities, ensuring uptime and energy efficiency for critical IT infrastructure. Key FeaturesHigh-Density Power: Some units support up to 90kW per rack, suitable for HPC, AI research, and computational labs.

Remote Monitoring & Management: Smart PDUs allow real-time tracking of power usage, outlet-level control, and alerts for overloads or spikes. Security & Compliance: Digital and physical security features, including access-controlled doors and asset management tags, help meet regulatory standards like PCI DSS, HIPAA, and GDPR. Environmental Monitoring: Sensors for temperature, humidity, and airflow optimize energy efficiency and prevent downtime.

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Flexible Configurations: Options include vertical, horizontal, and rack-mounted PDUs with various outlet types (C13, C19, slide-locking) and input voltages (208V single-phase, 415V three-phase),.

Factors Affecting Price

Power Capacity: Higher kW ratings and three-phase configurations increase cost. Intelligence & Monitoring: Units with advanced metering, remote management, and alert systems are more expensive. Customization: Tailored cabinets for specific rack sizes, outlet types, or environmental monitoring add to the price.

Brand & Warranty: Established brands like Raritan, Belden, and Elecnova may charge premium prices for reliability and support.

Typical Price Range

Basic Smart PD

U: $1,500–$3,000 per unit for standard rack-mounted units with basic monitoring.

High-

Density Intelligent Cabinets: $5,000–$10,000+ per unit for 30kW+ three-phase PDUs with advanced monitoring, security, and environmental sensors.

Recommendation

For universities, it is advisable to request a formal quote from vendors like Raritan, Elecnova, or Intellinet Solutions, specifying: Rack size and number of outletsPower requirements (kW per rack)Monitoring and management featuresSecurity and compliance needs This ensures the solution meets both technical and budgetary requirements while supporting mission-critical research and IT operations.

Article Content

How Much Does a Precision Power Distribution Cabinet Cost? Pricing ...

Learn what affects the cost of a precision power distribution cabinet, including rated current, circuit count, branch monitoring, enclosure design, IP rating, smart meters, components, and

IPDU Intelligent Power Distribution Unit

A Metered Intelligent PDU provides detailed insights into power consumption at different levels, including inlet-level and outlet-level metering. This level of granularity enables administrators to accurately

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Intelligent PDUs | Smart Power Distribution Units | Server Room ...

Intelligent power distribution units are sometimes referred to as iPDUs are an IP networked device that can be used to increase the operational efficiency of server rooms and datacentres in real-time.

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Power Distribution Cabinet & Box Price Guide: OEM Options, Trends ...

Getting the right power distribution cabinet & box can make or break your electrical setup. Compare price, latest factory-direct OEM solutions, and trending box models before you decide.

Precision Power Distribution Unit (PDU) Selection: Decoding Price ...

Why does the price of a Precision Power Distribution Cabinet (Row-Level Cabinet) range from a few thousand to over one hundred thousand? This guide breaks down the pricing logic behind these

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Power Distribution Cabinet & Box Price Guide: OEM Options, Trends ...

Q How fast can power distribution cabinets & boxes be delivered for wholesale orders? Delivery speed for power distribution cabinet & box depends on order size, OEM specs, and factory

Design of Intelligent Power Distribution Cabinet Based on Intelligent ...

Based on the current status of the development of power distribution cabinet, as well as the current intelligent power network technology and intelligent equipment needs, this paper through the analysis

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Power Distribution Unit

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