

Power distribution box for big data computer room

Article Overview

Power Distribution Units (PDUs) are essential for safely and efficiently distributing electricity to high-density data center equipment, offering capacities from 50 kVA to over 950 kVA with advanced monitoring and redundancy options.

Overview

A Power Distribution Unit (PDU) is a specialized device that distributes electrical power from a single input source, such as a UPS or utility feed, to multiple output receptacles in server racks and data center cabinets . Unlike standard power strips, PDUs are designed for high-capacity, high-density environments, providing robust construction, precise power management, and often real-time monitoring and remote control capabilities .

Types of PDUs

- **Basic PDUs:** Provide reliable power distribution without monitoring. Ideal for cost-effective setups where simple power delivery is sufficient .
- **Monitored PDUs:** Include local or remote monitoring of power usage, voltage, and current, enabling proactive management and capacity planning .
- **Switched PDUs:** Allow remote control of individual outlets, enabling scheduled power cycling, remote reboot, and precise load management .
- **High-Capacity Cabinets:** For large data centers, units like the Liebert® RXV or Delta PDUs offer dense distribution with inputs up to 400A and capacities from 225 kVA to 950 kVA, suitable for AI, cloud, or big data workloads

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Power Distribution Unit

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Contact Us

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