

How to Choose a Data Center PDU



Article Overview

Selecting the right PDU involves assessing your power needs, choosing the appropriate type, ensuring redundancy, and planning for monitoring and future growth.

Understand Your Power Requirements

Start by calculating the total power draw of all IT equipment in each rack, including servers, storage, and networking devices, typically measured in watts or kilowatts . Consider rack density and potential future growth to avoid under- or over-provisioning . Match the PDU's voltage, amperage, and phase to your facility's power source to prevent equipment damage and ensure safe operation .

Choose the Right PDU Type

PDU's come in several types, each offering different levels of functionality:

- Basic PDU's: Simple, reliable power distribution without monitoring or remote control. Ideal for small setups or temporary deployments .
- Metered PDU's: Include local displays to monitor power consumption, helping track energy usage and prevent overloads .
- Switched PDU's: Allow remote control of individual outlets, enabling remote reboot and scheduled power cycling .
- Intelligent PDU's: Provide full management, including real-time monitoring, environmental sensors, and remote outlet control for proactive power management

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Article Content

PDU Types in Data Centers: Basic, Metered, Switched & Intelligent

Explore different PDU types used in data centers, including basic, metered, monitored, switched, and intelligent PDUs.

A Practical Guide to Select the Best PDU for Data Centers

With various types and features to consider, this guide helps you navigate the key factors in choosing and implementing the best

How To Choose the Right Power Distribution Unit for Your Data

Learn how to choose the right power distribution unit (PDU) for your data center IT enclosure — from types and specs

Power Distribution Unit (PDU) Applications, Testing & Maintenance

This guide covers the basics of pdu construction, applications, testing and maintenance procedures. Photo: TestGuy.

A Practical Guide to Select the Best PDU for Data Centers

Selecting the right Power Distribution Unit (PDU) is essential for ensuring reliable and efficient power management in data centers.

10 Things to Consider When Choosing a Rack PDU

This provides data center managers with better control: individual outlets can be remotely turned on and off, and gear

How to Pick the Best Rack PDU for Your Data Center

Choose the best rack PDU for your data center by using a pdu calculator to plan load, ensure compatibility, and support future growth.

White Paper Power Distribution Units (PDUs) in Data Centers

Introduction Data centers are the backbone of the digital economy, powering everything from cloud services to AI-driven analytics.

Best PDUs for Data Centers 2026

Explore the best PDUs for data centers in 2026. Compare rack, switched & intelligent PDU options, key features, and

What Is a PDU in Data Centers and Why Is It Important?

Learn about PDUs in data centers: types, functions, benefits, and why they're crucial for reliable, efficient power

Power distribution FAQ | Eaton

Whether you're equipping a few racks or an entire data center, selecting the right PDU is essential to building an effective power

How to Choose the Right PDU for Your Data Center's Power ...

Power distribution is a critical aspect of any data center's infrastructure. A reliable and efficient Power Distribution Unit

How to Choose the Perfect PDU for Your Data Center:

Selecting the ideal PDU is not just a matter of power and outlets; it involves anticipating needs, committing

How to Choose the Right PDU for Data Centers?

For data centers, power distribution is critical, and the power supply to the equipment is managed through a Power Distribution Unit

How To Choose the Right Power Distribution Unit for Your Data Center

How To Choose the Right PDU for Your Data Center The two primary factors influencing the choice of PDU are location and staffing.

The Ultimate Guide to Power Distribution Units (PDUs): From Basics

In the heart of every data center, server room, and network closet, an unsung hero works tirelessly to ensure

4 Types of PDU in Data Centers: Overview and Features

Main Types of PDUs Used in Data Centers Different PDU types provide varying levels of visibility, control, and

Data Center PDU Guide: Optimize Power for Maximum Performance

Discover how to select the right Rittal PDU for your data center. Explore types, benefits, and installation tips for

Data Center Electrical Planning: Reliable Power Supply | Distribution ...

1. The Importance of Electrical Distribution Systems in Data Centers The electrical distribution system in a data center

The Best PDUs for a Reliable Data Center

Future-Proofing with Modular Options: Modular PDUs provide a scalable solution for data centers planning to grow, ensuring

How to Choose the Perfect PDU for Your Data Center: A Professional ...

Selecting the ideal PDU is not just a matter of power and outlets; it involves anticipating needs, committing to intelligent

PDU Buying Guide | How to Choose the Best Server Rack & Data Center PDU

Explore our PDU buying guide to learn how to choose the best PDU for your server rack and data center. [Learn](#)

How to Select PDUs for Data Centers

Data center owners that aim for the highest level of automation and productivity — that is, are willing to spend Capex to

How to Choose the Right PDU for Your Data Center's Power ...

In this guide, we will explore the key factors to consider when choosing a PDU that aligns with your data center's

Complete Guide for Power Distribution in Servers, Racks, and Data

Understanding the fundamental differences between single-phase and three-phase power systems is crucial for selecting appropriate

Complete Guide for Power Distribution in Servers, Racks, and Data Centers

A Power Distribution Unit (PDU) is a specialized electrical device designed to distribute power from a single input source to multiple

PDU Buying Guide: the Best PDU for Your Power Design

The requirements for power in data centers are steadily on the increase, which has triggered the constant revolutions

Power distribution unit

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

Data Center Power Distribution Basics

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

Contact Us

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