

What does intelligent PDU mean



Article Overview

An intelligent PDU (iPDU) is a smart power distribution unit that not only supplies electricity to IT equipment but also monitors, manages, and controls power usage in real time.

Definition and Purpose

An intelligent PDU is a rack-mounted device used in data centers to distribute power to servers, networking equipment, and other IT devices while providing advanced monitoring and control capabilities . Unlike a basic PDU, which simply delivers power, an intelligent PDU can measure voltage, current, and energy consumption, and it often includes environmental sensors to track temperature and humidity . This allows data center managers to optimize power usage, prevent overloads, and improve operational efficiency.

Key Features

Intelligent PDUs typically include the following features:

- Outlet-level monitoring: Tracks power usage for individual devices connected to each outlet .
- Remote management: Enables administrators to control outlets remotely, including turning devices on or off or scheduling power cycles .
- Alerts and alarms: Sends notifications when power thresholds or environmental conditions are exceeded, helping prevent downtime .
- Integration with management systems: Feeds real-time data into Data Center Infr...

Article Content

So, What Is an Intelligent PDU?

The term "intelligent PDU" has become so ubiquitous, the definition is no longer clear. Not surprising, "What is an intelligent PDU?" is

How Does an Intelligent PDU Work? | Intelligent PDU | CMW

Learn about the features and benefits of an intelligent pdu, how they differ from traditional power distribution units, and

Metered, Monitored, Switched, Smart: Comparing Types of PDUs

A metered PDU does not enable connection to a data network. The data you see on the device is what's happening right now. There

IPDU Intelligent Power Distribution Unit

IPDU Intelligent Power Distribution Unit - An Intelligent Power Distribution Unit (iPDU), also known as a Smart PDU or Intelligent

What Is an Intelligent PDU and Why Does It Matter?

An intelligent PDU is a smart power device offering real-time monitoring, remote control, and energy efficiency, essential for modern

What's the Difference Between Basic and Intelligent PDUs?

That's where intelligent or "smart" PDUs (iPDUs) come in. With the global intelligent PDU market expected to reach \$2.01 billion by

Power distribution unit

This kind of PDU placement offers intelligent capabilities such as power metering at the inlet, outlet, and PDU branch circuit level

What is a Smart PDU in a Data Center

A smart PDU in a data center optimizes power management with real-time monitoring, load balancing, and energy efficiency,

What Is a Smart PDU? | Data Center Glossary | Sunbird DCIM

A smart power distribution unit (PDU) is a power supply for IT devices in a server rack that is networked to enable real-time remote

What Are the Different Types of PDU?

A basic PDU offers raw power distribution with no means of monitoring or controlling the flow of electricity beyond setting up the unit.

What Is an Intelligent PDU? | Data Center Glossary | Sunbird DCIM

An intelligent power distribution unit (PDU) is a networked power supply for IT equipment in a server cabinet that provides real-time

EL2P Intelligent Power Distribution Unit

Managing and installing a rack power distribution unit (PDU) has never been easier than with the EL2P PDU. Designed to simplify

What is an Intelligent PDU?

What Is an Intelligent PDU? An intelligent PDU, also known as smart PDU, goes beyond distributing power to IT equipment within

What is an Intelligent PDU?

An intelligent PDU, or smart PDU, goes beyond distributing power to data center IT equipment. It is capable of monitoring, managing,

Difference Between Basic and Intelligent PDUs: Choosing the Right

While Basic PDUs offer a straightforward power distribution solution without advanced monitoring or control features, Intelligent

Intelligent PDU | nVent DATA-SOLUTIONS

When should I consider liquid cooling instead of traditional air cooling? What liquid cooling products does nVent offer? Are modular

Power Distribution Unit

Optimising energy costs in data centres is therefore becoming increasingly important for companies – IT managers can use an

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