Smart Socket PDU



Overview

In IT, the smart PowerPDU 4KS is typically used to measure & distribute electricity in a 19" rack (cabinet) in a data center.

Key Takeaways

Smart PDU sockets allow individual control, monitoring, and remote management of connected devices, enhancing power distribution efficiency and reliability.

Overview of Smart PDU Sockets

A Smart PD

U (Power Distribution Unit) is a rack-mounted or standalone device that distributes electrical power to multiple devices while providing advanced features such as remote switching, energy monitoring, and sequential power-up. Each socket on a smart PDU can often be controlled individually, allowing users to turn devices on/off, power-cycle, or schedule operations.

Key Features

Individual Socket Control: Each outlet can be switched on/off or power-cycled independently, which is useful for rebooting frozen equipment or managing energy usage. Energy Monitoring: Some PDUs provide per-socket metering for current (A), voltage (V), power (W), energy consumption (Wh), and power factor, enabling detailed analysis of power usage.

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Sequential Power-

Up: Outlets can be configured to power on in a specific sequence with delays, preventing inrush current issues when multiple devices start simultaneously. Remote Management: Smart PDUs can be controlled via web interfaces, mobile apps, SNMP, Telnet, MQTT, Modbus/TCP, or cloud services, allowing management from anywhere. Integration and Automation: Open APIs and protocol support enable integration with data center infrastructure management (DCIM) systems or custom automation scripts.

Common Socket TypesIEC C13: Standard for servers, switches, and network devices.

IE

C C19: Higher current devices like UPS systems or high-power servers. BS1363A / CEE 7/3: Regional plug types for office or network environments.

Applications

Smart PD

U sockets are widely used in: Data centers and server racks for reliable power distribution and monitoring. Network cabinets for switches, routers, and other IT equipment. Digital signage or remote IT installations where remote power control reduces downtime.

Examples of Smart PDUsNETIO PowerPDU 4PS: 4 IEC C13 sockets, individually switchable, cloud and LAN control, sequential power-up, no metering.

NETI

O PowerPDU 8KS: 8 metered and switched sockets, LAN control, supports energy analysis.iPower ACU Series: Up to 48 outlets, per-socket monitoring, sequential start-up, environmental sensors, SNMP and web interface.

Schneider Easy PD

U EPDU2116S: 20 C13 and 4 C19 sockets, zero-U vertical mount, remote management, load monitoring, firmware updates.

Smart PD

U sockets provide flexibility, safety, and efficiency in managing power for critical IT and network infrastructure, making them essential for modern data centers and remote installations.

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Article Content

PowerPDU 4KS | NETIO products: Smart power

In IT, the smart PowerPDU 4KS is typically used to measure & distribute electricity in a 19" rack (cabinet) in a data center. The connected appliances can be

Smart PDU Solutions | Intelligent Power Distribution Units

Switched, metered and monitored Smart PDU solutions for data centers, telecom and industrial applications. Remote outlet control, energy metering, SNMP/Modbus integration and OEM/ODM

Power Distribution Units (PDU) – Intellinet Europe

Depending on requirements, PDUs with CEE 7/3, C13, or BS1363A outlets, as well as Smart PDUs with monitoring capabilities, can be used to ensure reliable

iPower ACU | Intelligent PDU | Smart PDU

The range consists of four models offering various levels of power monitoring and power switching features, and can be manufactured as single, dual or 3-Phase

Intelligent Power Distribution Unit | Smart Rack PDU

Unlike basic power strips, this intelligent power distribution unit provides real-time monitoring, remote control, and per-outlet power metering. It allows administrators to turn individual

Schneikel AG | PDU SMART BASIC

Schneikel''s Smart Basic PDUs represent a simple and reliable solution where fail-safe power distribution is required for racks and all other data center applications.

What is a Smart PDU?

A smart PDU goes beyond distributing power to data center IT equipment. It is also capable of monitoring, managing, and controlling power consumption to multiple

Smart PDU remote on/off each socket, Input IEC309 2P+E 32A

Smart PDU, DPDU Series (8) Socket IEC C13 PDU Monitoring and Switching, Remote on/off each socket 8 Sockets IEC C13 Input : IEC309 2P+E 32A with cable 3G*4.0mm²*3M Rating Voltage : 220

Smart PDU Cabinet Socket 8-Port 15 amps SSH telnet SNMP

Smart PDU Cabinet Socket 8-Port 15 amps SSH telnet SNMP 485modbus- RTU Programming Development Network Remote Control Room Aging Rack Used (SNMP v1v2v3 Indicates The telnet

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iPower ACU | Intelligent PDU | Smart PDU

iPower ACU – Advanced Control Unit PDU Smart PDU with a host of features and benefits iPower ACU is the 3rd generation of iPower intelligent PDUs designed

Monitored PDU-Smart Power Distribution Units

Monitored PDU are smart solutions known to improve uptime, increase operational efficiency, reduce operating costs, lower PUE, improve energy efficiency, and increase control at the rack.

PowerPDU 4PB | NETIO products: Smart power sockets controlled

PowerPDU 4PB NETIO PowerPDU 4PB is a smart PDU (Power Distribution Unit) with four power outlets (4x NEMA 5-15R). Each output can be switched on/off individually. NETIO PowerPDU 4PB can be

1U Rack PDU with Universal Plugs | Smart Power Strip

1U rack-mount PDU socket with universal plug options. Smart power strip designed for server cabinets, ensuring safe and efficient power distribution

Intelligent Power Distribution Units

Intelligent Power Distribution Units (PDUs) Intelligent Power Distribution Units are at the forefront of this transformation. They offer various features and capabilities that address the specific needs of data

pdu_en.book

Individually configurable This broad range of applications necessitates a PDU portfolio capable of providing the optimum configuration for each specific application. Above and beyond this, smart

Different Types of Rack PDUs

It is important to note that in non-intelligent rack PDU, the display information can only be viewed locally, and lack remote capabilities. Intelligent Rack PDUs 101 There are four main types of

NETIO 4 Socket Smart PDU, US outlets (Power metering options):

PowerPDU 4PB & 4KB are smart Power Distribution Units, with 4 power outlets (4x IEC-320 C13). Each output can be switched on/off individually. 4KB is metered.

Smart PDU Series 32A Three-Phase 12 Bit German Standard Socket ...

Smart PDU Series 32A Three-Phase 12 Bit German Standard Socket Industrial PDU Power Distribution Rack Mount, Find Details and Price about Smart PDU and Three-Phase PDU from Shenzhen

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This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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