

# PDU Power Distribution Unit Standard



## Overview

Basic Power Distribution Units (PDUs) Basic PDUs have some of the highest outlet densities and the smallest form factors available in the marketplace. They.

## Key Takeaways

Power Distribution Units (PDUs) are designed to safely distribute electrical power to multiple devices, with specifications varying by capacity, form factor, input/output configuration, and environmental tolerances. General Overview PDUs provide a single electrical input and multiple outputs, typically as outlets, to power multiple devices in data centers or enterprise environments, ensuring reliable and scalable power distribution. They are available in basic, metered, and intelligent models, supporting both single-phase and three-phase power systems.

## Electrical Specifications

Input Voltage and Frequency: Standard PDUs operate at 208/120 VAC, with input frequency options of 50 Hz  $\pm$  5% or 60 Hz  $\pm$  5%. Non-standard voltages can be customized. Power Capacity: PDUs range from small units with a few kVA to high-capacity units supporting 300 kVA to 2,000 kVA.

## Eaton Power

Hub 2 PDUs support 400–1,250 kVA. Phase Compatibility: Available in single-phase or three-phase configurations, including Delta or WYE systems. Outlets: Basic PDUs can feature up to 54 outlets (vertical 0U) or 16 outlets (horizontal 1U/2U), with C13 and C19 outlet types commonly used.

## **Mechanical and Mounting Features**

**Form Factor:** PDUs are designed for vertical (0U) or horizontal (1U/2U) rack mounting. **Mounting Flexibility:** Units include threaded inserts and mounting buttons for secure installation in standard racks or cabinets. **Footprint and Density:** High outlet density and compact form factors maximize space utilization in data centers.

## **Environmental and Operational Tolerances**

**Operating Temperature:** 0°C to 40°C (32°F to 104°F) with ambient cooling air not exceeding 40°C; 24-hour average should not exceed 30°C. **Storage Temperature:** -100°C to 400°C (-330°F to 1040°F), with extended ranges available upon request. **Humidity:** 0% to 95% non-condensing.

**Altitude:** Operating up to 1,000 m (3,300 ft); storage and transport up to 12,200 m (40,000 ft). **Audible Noise:** Compliant with NEMA-ST20 standards.

## **Safety and Compliance**

**Standards:** PDUs are typically UL 1062 listed and tested to UL 1950 standards.

## **Hyper PD**

Us also adhere to UL1062 and ISO9001 quality processes. **Protection Features:** Many PDUs include surge protection, thermal monitoring, and compatibility with breaker and metering technologies for enhanced safety and reliability.

## **Additional Features**

**Cable Management:** Some PDUs feature cable tie-compatible outlets for secure cord retention. **Monitoring:** Intelligent PDUs allow proactive monitoring of thermal conditions and power usage to prevent failures and optimize energy efficiency. **Material Options:** Available in copper or aluminum construction to meet specific operational requirements.

PD

Us are critical for ensuring reliable, scalable, and safe power distribution in mission-critical environments, with specifications tailored to the size, load, and configuration of the data center or enterprise infrastructure.

## Article Content

### Basic Power Distribution Units (PDUs)

Basic PDUs have some of the highest outlet densities and the smallest form factors available in the marketplace. They feature up to 54 outlets and come standard with a top fed 10-foot (3 meter) input

### PDU Power

Unlike standard power strips, PDUs are built to handle the demanding requirements of enterprise equipment, featuring robust construction, precise power management, and often sophisticated

### Power Distribution Units

Determine which PDU is right for you based on power capacity, input and output configurations, monitoring features and scalability needs. Find detailed specifications and part numbers to select the

### Rack PDU | Power distribution units for server racks | Eaton

Providing reliable and cost effective power distribution, the Basic PDU offers IEC outlet grips, tool-less installation in server racks, color-coded outlet sections and a high operating temperature.

### PDU in Data Centers: Types, Features & How to Choose

Data center PDUs distribute power from UPS or utility-backed systems to rack equipment. This guide explains PDU types, key features,

### PX4 Landing Page

The PX4 is more than just a rack power distribution unit. It is a unified rack PDU solution that provides forward-thinking tools, sensors, and insights to solve ever-evolving infrastructure challenges.

### Rack PDU (s), Data Center Rack Mount PDU (s), Power Distribution Unit

The Rack PDU For All Your Data Center Needs Trusted by the world's largest data center operators, Server Technology Rack Power Distribution Units' innovative design combines over 30 years of

### Hot-swap for UPS systems and PDUs

Hot-swap power distribution units (PDUs) Eaton hot-swap PDUs offer dual input cords and a manual bypass switch, enabling live-replacement of standard plug-in UPS systems for maintenance without

## American Standard PDU Power Distribution Unit

The American Standard PDU Power Distribution Unit is a professional power distribution product designed strictly in accordance with North American electrical standards, specially tailored for data

## 10 Best Rack-Mounted Smart Power Distribution Units (June 2026)

Discover the best rack-mounted smart PDUs for 2026. Our expert review covers 10 top-rated power distribution units with remote management, monitoring, and enterprise-grade features for

## XForm PDU 10 WAY

Product description 1U rack-mounted 10-unit 13A UK Plug PDU Power Strip Network Cabinet Rack Socket 2M Extension Cable Standard Outlet Switch Supply Power Distribution aluminum (10-Outlet)

## APC AP7852 20xC13 4xC19 ZeroU Switched Rack PDU Power Distribution Unit ...

- Metered rack PDU with real-time monitoring - User-configurable alarm limits for circuit overload protection - Remote and local alerts for critical equipment - Web-based, SNMP, and Telnet

## APC EPDU2232SMBO power distribution unit (PDU) - TRINCOS

Informationen Easy rack PDU Metered-by-Outlet with Switching EPDU2232SMBO provides advanced power monitoring and control capabilities for individual outlets, empowering critical IT infrastructure.

## Industrial Power Strip PDU Rack Standard Power Distribution Unit

Industrial Power Strip PDU Rack Standard Power Distribution Unit Socket with 3 5 6 or 8 AC Outlets for Network Data Center

## 4 Types of PDU in Data Centers: Overview and Features

What Is a PDU in a Data Center? A Power Distribution Unit is responsible for delivering electrical power from an upstream source—such as a UPS or power panel—to IT equipment within

## APC USA | Schneider Electric United States

APC, a flagship brand of Schneider Electric, provides clean battery back-up power, surge protection, and IT physical infrastructure inside and outside the traditional IT environment to deliver certainty in a

## Used 1U Rack Mount 19 Outlet PDU Power Distribution Unit Circuit ...

This ensures reliable performance and helps prevent damage to your equipment  
**Heavy-Duty Construction:** The power distribution unit is designed with heavy-duty components and a sturdy metal

PDU's | Power Distribution Unit for Server Racks

Overview At Data Room Direct, we supply high-quality Power Distribution Units (PDU's) designed for network cabinets, server racks, and data centres. Whether you need simple, reliable power strips or

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

