

Global AI Data Center Power Distribution Unit Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Data Center Power Distribution Unit market size is expected to reach \$ 4614 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

AI Data Center Power Distribution Unit refers to rack-level, cabinet-level, or modular power distribution equipment used in AI data centers to distribute incoming electrical power to servers, GPU clusters, networking equipment, storage systems, and related IT loads. In this report, the market mainly includes basic PDUs, metered PDUs, monitored PDUs, switched PDUs, and intelligent PDUs designed for high-density AI computing environments. The 2025 benchmark ASP is US\$420 / unit, shipment volume is 5,820k units, and average gross margin is 29%. The upstream industry chain includes copper conductors, circuit breakers, sockets, relays, current sensors, power metering chips, communication modules, metal enclosures, and firmware components. The midstream includes PDU design, assembly, testing, certification, and integration with rack and data center power systems. The downstream includes AI training data centers, inference data centers, hyperscale cloud facilities, colocation data centers, enterprise server rooms, edge AI nodes, and high-performance computing facilities.

AI data center power distribution units are moving from basic power distribution devices toward intelligent infrastructure components. As AI computing environments become more power-intensive, rack-level and cabinet-level power management is becoming more important for operational reliability, energy visibility, and facility safety. Demand is increasingly driven by high-density server deployment, GPU cluster expansion, modular data center construction, edge AI infrastructure, and the need for real-time power monitoring. Future product development is expected to focus on intelligent metering, outlet-level monitoring, remote switching, environmental sensing, digital connectivity,

and integration with broader data center energy management systems

This report studies the global AI Data Center Power Distribution Unit production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Data Center Power Distribution Unit and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI Data Center Power Distribution Unit that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Data Center Power Distribution Unit total production and demand, 2021-2032, (K Units)

Global AI Data Center Power Distribution Unit total production value, 2021-2032, (USD Million)

Global AI Data Center Power Distribution Unit production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AI Data Center Power Distribution Unit consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AI Data Center Power Distribution Unit domestic production, consumption, key domestic manufacturers and share

Global AI Data Center Power Distribution Unit production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AI Data Center Power Distribution Unit production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AI Data Center Power Distribution Unit production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AI Data Center Power Distribution Unit market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Vertiv, Schneider Electric, Eaton, Legrand, Panduit, Rittal, Chatsworth Products, CyberPower, Leviton, ATEN, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AI Data Center Power Distribution Unit market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI Data Center Power Distribution Unit Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Data Center Power Distribution Unit Market, Segmentation by Type:

Single-Phase PDU

Three-Phase PDU

High-Voltage Data Center PDU

Global AI Data Center Power Distribution Unit Market, Segmentation by Power Density:

Low-Density PDU, below 5 kW per rack

Medium-Density PDU, 5-15 kW per rack

High-Density PDU, 15-30 kW per rack

Ultra-High-Density PDU, above 30 kW per rack

Global AI Data Center Power Distribution Unit Market, Segmentation by Product Type:

Basic PDU

Metered PDU

Monitored PDU

Global AI Data Center Power Distribution Unit Market, Segmentation by Application:

Cloud Computing

Artificial Intelligence & High-Performance Computing

Telecommunications & Network Infrastructure

Colocation Data Centers

Others

Companies Profiled:

Vertiv

Schneider Electric

Eaton

Legrand

Panduit

Rittal

Chatsworth Products

CyberPower

Leviton

ATEN

Delta Electronics

Huawei Digital Power

Shenzhen KSTAR Science & Technology

Kehua Data

Socomec

Key Questions Answered:

1. How big is the global AI Data Center Power Distribution Unit market?
2. What is the demand of the global AI Data Center Power Distribution Unit market?
3. What is the year over year growth of the global AI Data Center Power Distribution Unit market?
4. What is the production and production value of the global AI Data Center Power Distribution Unit market?
5. Who are the key producers in the global AI Data Center Power Distribution Unit market?
6. What are the growth factors driving the market demand?

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