

Global Intelligent Rack PDU Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Intelligent Rack PDU market size is expected to reach \$ 5599 million by 2032, rising at a market growth of 10.9% CAGR during the forecast period (2026-2032).

An Intelligent Rack PDU (Power Distribution Unit) is a data center power device installed in server racks that distributes electrical power to multiple IT equipment (such as servers, switches, and storage devices) while providing real-time monitoring and remote management capabilities. It typically supports functions such as power metering, load balancing, environmental sensing, outlet-level control, and network-based remote switching. In 2025, global Intelligent Rack PDU production reached approximately 8.20 M units, with an average global market price of around US\$320 per unit. Annual production capacity is 9.15 M units. Gross Profit Margin: 38%. The Intelligent Rack PDU industry chain is structured across three main layers: upstream component suppliers, midstream manufacturers, and downstream end-users. Upstream includes electrical components such as copper busbars, circuit breakers, metering ICs, sensors, and network communication modules. Midstream is dominated by manufacturers like Schneider Electric, Eaton, Vertiv, and Delta Electronics, which design, assemble, and brand intelligent PDUs. Downstream demand mainly comes from hyperscale cloud data centers, AI/HPC infrastructure, colocation facilities, telecom edge sites, and enterprise IT rooms, where reliable and remotely manageable power distribution is critical. Intelligent Rack PDUs are evolving from simple power distribution hardware into software-enabled infrastructure nodes. The key value shift is no longer just electrical reliability, but real-time monitoring, energy optimization, and remote controllability in high-density computing environments. As AI workloads drive higher rack power density, PDUs are becoming strategic infrastructure components rather than passive accessories. In my view, future competition will increasingly depend on software integration, energy intelligence, and system-level ecosystem control rather than purely

electrical specifications.

This report studies the global Intelligent Rack PDU production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Intelligent Rack PDU 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 Intelligent Rack PDU that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Intelligent Rack PDU total production and demand, 2021-2032, (K Units)

Global Intelligent Rack PDU total production value, 2021-2032, (USD Million)

Global Intelligent Rack PDU production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Intelligent Rack PDU consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Intelligent Rack PDU domestic production, consumption, key domestic manufacturers and share

Global Intelligent Rack PDU production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Intelligent Rack PDU production by Functionality, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Intelligent Rack PDU production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Intelligent Rack PDU 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 Schneider Electric, Eaton Corporation, Vertiv Group Corp, ABB Ltd, Legrand SA, Raritan Inc, Server Technology Inc, Geist, Panduit Corp, Delta Electronics, 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 Intelligent Rack PDU 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 Functionality, 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 Intelligent Rack PDU Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Intelligent Rack PDU Market, Segmentation by Functionality:

Basic PDU

Metered PDU

Switched PDU

Intelligent / Smart PDU

Global Intelligent Rack PDU Market, Segmentation by Power Input Type:

Single-phase PDU(110V / 220V)

Three-phase PDU(208V / 415V)

Global Intelligent Rack PDU Market, Segmentation by Power Capacity:

Low Power?? 3kW?

Medium Power?3–10kW?

High Power?10–20kW?

Ultra High Power?? 20kW?

Global Intelligent Rack PDU Market, Segmentation by Application:

Hyperscale Cloud Data Centers

HPC & AI Dedicated Infrastructure

Enterprise Data Centers

Colocation & Hosting Data Centers

Telecom & Edge Infrastructure

Others

Companies Profiled:

Schneider Electric

Eaton Corporation

Vertiv Group Corp

ABB Ltd

Legrand SA

Raritan Inc

Server Technology Inc

Geist

Panduit Corp

Delta Electronics

Huawei Digital Power

YOSUN Electric

Banatton Technologies

ZTE

Siemens AG

Rittal GmbH

CyberPower Systems

Leviton Manufacturing

Socomec Group

Chatsworth Products

Key Questions Answered:

1. How big is the global Intelligent Rack PDU market?

2. What is the demand of the global Intelligent Rack PDU market?
3. What is the year over year growth of the global Intelligent Rack PDU market?
4. What is the production and production value of the global Intelligent Rack PDU market?
5. Who are the key producers in the global Intelligent Rack PDU market?
6. What are the growth factors driving the market demand?

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