

Global Rack-Level Power Supply Systems Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Rack-Level Power Supply Systems market size was valued at US\$ 2305 million in 2025 and is forecast to a readjusted size of US\$ 7349 million by 2032 with a CAGR of 18.0% during review period.

Rack-level power supply systems are integrated power platforms installed inside or immediately adjacent to server, storage, and networking racks. They typically combine a power shelf or rack, hot-swappable AC-DC or DC-DC power modules, busbars and distribution assemblies, a power management controller, and optional battery backup or power-capacitor units. Their primary function is to convert single-phase or three-phase AC, high-voltage DC, or other upstream feeds into stable 12 V, 48–54 V, or other rack DC bus outputs while providing redundant parallel operation, fault isolation, load sharing, telemetry, and short-duration ride-through. These systems support high-density IT equipment used in cloud, artificial intelligence, high-performance computing, telecommunications, and edge facilities with efficient, scalable, and serviceable power delivery. Products are commonly differentiated by rated output power, input architecture, rack form factor, and backup configuration, with key performance criteria including conversion efficiency, power density, transient response, redundancy level, hot-swap capability, and management interfaces. The blended gross margin is approximately 32%.

Rising rack power density from AI training and inference, high-performance computing, and cloud expansion is placing pressure on conventional server-level power supplies and low-capacity rack distribution through higher copper losses, constrained rack space, and more demanding transient loads. Hyperscale cloud operators, colocation

providers, and large enterprises are increasingly centralizing power conversion and distribution at rack level to reduce conversion stages, accelerate deployment, and scale capacity modularly across successive GPU and accelerator platforms.

Product development is centered on 48–54 V DC buses, OCP ORv3 and high-power rack architectures, with a gradual transition toward higher-voltage DC input and rack-side DC-DC conversion. Power shelves in the 33–72 kW range, hot-swappable modules, N+1 or N+N redundancy, coordinated battery and power-capacitor backup, digital telemetry, and liquid-cooling compatibility are becoming major competitive priorities. Wide-bandgap power devices, high-frequency magnetics, and advanced control algorithms are improving efficiency, power density, and dynamic-load performance.

North American demand is led by cloud and AI infrastructure investment, Asia has strong manufacturing depth in power modules, magnetics, racks, and system integration, and European customers place greater emphasis on energy efficiency, standards compliance, and serviceability. The market retains significant customization and qualification barriers because products must be validated with server platforms, busbars, backup systems, and thermal management. Rapid standards evolution, semiconductor and copper cost volatility, and customer concentration remain key risks, while 800 V DC architectures, megawatt-class racks, and integrated power-and-cooling platforms create new growth opportunities.

Report Scope

This report is a detailed and comprehensive analysis for global Rack-Level Power Supply Systems market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Rack-Level Power Supply Systems market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit),

2021-2032

Global Rack-Level Power Supply Systems market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Rack-Level Power Supply Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Rack-Level Power Supply Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Rack-Level Power Supply Systems

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Rack-Level Power Supply Systems market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Advanced Energy, Vertiv, Delta Electronics, Lite-On Technology, Murata Manufacturing, AcBel Polytech, FSP Group, Flex, Bel Power Solutions, Chicony Power Technology, etc.

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

Rack-Level Power Supply Systems market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche

markets.

Market Segmentation

Market segment by Type

20 kW and Below

Above 20 kW to 40 kW

Above 40 kW to 80 kW

Above 80 kW

Market segment by Input Power Architecture

Single-Phase AC Input

Three-Phase AC Input

High-Voltage DC Input

Multi-Input Systems

Market segment by Rack Form Factor

19-Inch Rack Systems

21-Inch Open Rack Systems

19/21-Inch Compatible Systems

Other Rack Formats

Market segment by Backup Configuration

Without Integrated Backup

Battery Backup Integrated

Capacitor Backup Integrated

Hybrid Backup Integrated

Market segment by Application

Cloud Computing

Colocation Services

Enterprise IT

Telecommunications

Government and Research Computing

Others

Major players covered

Advanced Energy

Vertiv

Delta Electronics

Lite-On Technology

Murata Manufacturing

AcBel Polytech

FSP Group

Flex

Bel Power Solutions

Chicony Power Technology

Megmeet Electrical

Phihong Technology

ZTE

VAPEL

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Rack-Level Power Supply Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Rack-Level Power Supply Systems, with

price, sales quantity, revenue, and global market share of Rack-Level Power Supply Systems from 2021 to 2026.

Chapter 3, the Rack-Level Power Supply Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Rack-Level Power Supply Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Rack-Level Power Supply Systems market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Rack-Level Power Supply Systems.

Chapter 14 and 15, to describe Rack-Level Power Supply Systems sales channel, distributors, customers, research findings and conclusion.

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