

Global High-density GPU Server Power Shelf Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-density GPU Server Power Shelf market size is expected to reach \$ 6556 million by 2032, rising at a market growth of 19.3% CAGR during the forecast period (2026-2032).

In 2025, global High-density GPU Server Power Shelf production reached approximately 1.48 million units, with an average global market price of around USD 1,250 per unit.

The gross profit margin of major companies in the industry is between 21.54%-38.86%.

In 2025, the global production capacity of High-density GPU Server Power Shelf was approximately 1.95 million units.

High-density GPU Server Power Shelf is a modular power distribution and conversion assembly used in AI servers and GPU server racks. It houses multiple power supply units, busbars, control boards, protection devices and monitoring interfaces to provide stable high-current power for GPUs, CPUs, memory and accelerator modules. The product supports redundancy, hot swapping, high efficiency and rack-level power management. The market includes server power shelves and high-density power trays for GPU systems, but excludes standalone power supply units, complete servers and data center UPS systems.

The industry chain includes power semiconductors, magnetic components, capacitors, busbars, printed circuit boards, connectors, fans, sheet metal frames, controllers, sensors and firmware. Midstream production covers power architecture design, module assembly, thermal design, electrical testing, safety certification, firmware integration and

reliability validation. Downstream demand comes from AI servers, GPU clusters, cloud data centers, high-performance computing systems and enterprise accelerator platforms. Growth is driven by higher GPU power consumption, AI training clusters, rack-scale power architecture and demand for efficient server power delivery.

This report studies the global High-density GPU Server Power Shelf production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-density GPU Server Power Shelf 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 High-density GPU Server Power Shelf that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-density GPU Server Power Shelf total production and demand, 2021-2032, (K Units)

Global High-density GPU Server Power Shelf total production value, 2021-2032, (USD Million)

Global High-density GPU Server Power Shelf production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global High-density GPU Server Power Shelf consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: High-density GPU Server Power Shelf domestic production, consumption, key domestic manufacturers and share

Global High-density GPU Server Power Shelf production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global High-density GPU Server Power Shelf production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global High-density GPU Server Power Shelf production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High-density GPU Server Power Shelf 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 Advanced Energy, Flex, Schneider Electric, Murata Manufacturing, Bel Power Solutions, Delta Electronics, LITEON Technology, AcBel Polytech, Compuware Technology, FSP Technology, 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 High-density GPU Server Power Shelf 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 High-density GPU Server Power Shelf Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-density GPU Server Power Shelf Market, Segmentation by Type:

AC-DC Power Shelves

DC-DC Power Shelves

Hybrid Power Shelves

Global High-density GPU Server Power Shelf Market, Segmentation by Redundancy Configuration:

N+1 Redundant Power Shelves

N+N Redundant Power Shelves

2N Redundant Power Shelves

Global High-density GPU Server Power Shelf Market, Segmentation by Output Power:

Low Power??15 kW?

Medium Power?15.1?30 kW?

High Power??30 kW?

Global High-density GPU Server Power Shelf Market, Segmentation by Application:

AI GPU Servers

High-Performance Computing Servers

Cloud Acceleration Servers

Other

Companies Profiled:

Advanced Energy

Flex

Schneider Electric

Murata Manufacturing

Bel Power Solutions

Delta Electronics

LITEON Technology

AcBel Polytech

Compuware Technology

FSP Technology

Phihong Technology

Chicony Power Technology

Shenzhen Megmeet Electrical

Shenzhen Honor Electronic

Aohai Technology

China Greatwall Technology

Guangdong Gospower Electric Technology

Key Questions Answered:

1. How big is the global High-density GPU Server Power Shelf market?
2. What is the demand of the global High-density GPU Server Power Shelf market?
3. What is the year over year growth of the global High-density GPU Server Power Shelf market?
4. What is the production and production value of the global High-density GPU Server Power Shelf market?

5. Who are the key producers in the global High-density GPU Server Power Shelf market?
6. What are the growth factors driving the market demand?

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