

# Global AI Server Power Supply Market Research Report 2026(Status and Outlook)

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## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on AI Server Power Supply competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, global AI Server Power Supply sales reached approximately 2,607.37 k Units, with an average market price of around 527 USD/Unit. AI servers offer specially optimized hardware and software for storing and processing vast amounts of data, thus supporting the training and execution of AI models. The applications of AI servers are very diverse, including image and voice recognition, natural language processing, predictive analytics, personalized recommendation systems, autonomous driving (image recognition), and the medical field (intelligent diagnosis), among others. For dependable operation, AI servers rely on robust and stable PSUs. The power supply serves as a vital component responsible for converting alternating current (AC) from the electrical grid into the direct current (DC) necessary for the server's electronic components. In the context of high-performance AI servers, the PSU must deliver both ample and stable power to drive CPUs, GPUs, or AI accelerators. Additionally, power supply efficiency is crucial, as it directly influences overall energy consumption and heat dissipation requirements. A highly efficient power supply can minimize energy waste and reduce the demand for heat dissipation, ensuring server stability during high-load operations. Moreover, an efficient power supply can extend its lifespan and mitigate server downtime resulting from power-related issues. Most AI servers in data centers are powered from the utility AC grid (commonly 110V/220V/277V single-phase or high-voltage three-phase). The AC-DC power supply converts this alternating current into stable low-voltage DC (typically 12V or 48V) that feeds GPUs, CPUs, memory, and other components. AC-based solutions are the mainstream today due to maturity and broad compatibility. In high-performance AI servers, 48V output architectures are

increasingly favored because they reduce copper loss, allow thinner cabling, and enable higher power density, which is critical for GPU-dense racks. Some hyperscale data centers (e.g., Google, Meta) deploy direct current distribution with a high-voltage DC bus (commonly 380V DC). Power is conditioned by centralized UPS or HVDC systems and then delivered directly to racks, where DC-DC converters step it down to 48V/12V. This approach reduces the number of AC-DC conversion stages, improving overall energy efficiency and lowering thermal stress. DC distribution is particularly advantageous in ultra-high-power AI clusters (>30kW per rack), where efficiency gains translate into substantial operational cost savings. In terms of efficiency grade, AI server power supply includes platinum grade and titanium grade. Platinum-certified units must achieve efficiencies of at least 90% / 92% / 89% at 20% / 50% / 100% load levels (under 115V input). In AI servers, Platinum PSUs are widely adopted in mainstream commercial rack systems, balancing cost and efficiency. They help reduce energy waste and heat generation, though at hyperscale AI workloads with sustained high utilization, their performance-per-watt is slightly behind Titanium-grade supplies. Titanium is the highest efficiency standard, requiring 90% / 94% / 96% / 91% efficiency at 10% / 20% / 50% / 100% load (115V input). Titanium units maintain outstanding efficiency across both light and heavy loads, making them well-suited for GPU-based AI servers where power draw is dynamic and often spiky. While more expensive, Titanium PSUs significantly reduce long-term electricity and cooling costs. As a result, they are increasingly adopted in premium AI servers and large-scale training clusters where total cost of ownership is a critical factor.

The global AI Server Power Supply market size was estimated at USD 1374.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 20.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global AI Server Power Supply market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global AI Server

Power Supply market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the AI Server Power Supply market.

### **Global AI Server Power Supply Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Delta Electronics  
LITEON Technology  
Acbel Polytech  
Chicony Power Technology  
Advanced Energy  
Shenzhen Megmeet Electrical  
Shenzhen Honor Electronic  
Aohai Technology  
China Greatwall Technology  
FSP Group  
Phihong  
Murata  
Shenzhen Gospower  
Zippy Technology

SilverStone  
Beijing Dynamic Power

### **Market Segmentation (by Type)**

Below 3 kW  
3-5.5 kW  
Above 5.5 kW

### **Market Segmentation (by Application)**

GPU Server  
ASIC Server  
FPGA Server  
Others

### **Geographic Segmentation**

North America (USA, Canada, Mexico)  
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)  
South America (Brazil, Argentina, Columbia, Rest of South America)  
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players  
Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value  
In-depth analysis of the AI Server Power Supply Market  
Overview of the regional outlook of the AI Server Power Supply Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales

team, who will ensure that your requirements are met.

## **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the AI Server Power Supply Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of AI Server Power Supply, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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