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# Server Power Supply Units Market Forecasts to 2032 – Global Analysis By Product Type (AC-DC Power Supply Units, DC-DC Power Supply Units, Open Frame Power Supply, Single Power Supply, Redundant Power Supply, Common Redundant Power Supply (CRPS), Uninterruptible Power Supplies (UPS), and Other Product Types), Power Rating, Form, Efficiency Certification, Application, and By Geography

https://marketpublishers.com/r/S695F15DFD8EEN.html
Date: July 2025
Pages: 150
Price: US$ 4,150.00 (Single User License)
ID: S695F15DFD8EEN

## Abstracts

According to Stratistics MRC, the Global Server Power Supply Units Market is accounted for $3.74 billion in 2025 and is expected to reach $6.01 billion by 2032 growing at a CAGR of 7.0% during the forecast period. Server Power Supply Units (PSUs) are essential components that convert electrical power from an external source into usable energy for a server's internal components. Designed to handle high loads and operate efficiently, they ensure stable power delivery, preventing hardware damage and system downtime. Server PSUs often feature redundancy, allowing continuous operation during failures. They are rated by wattage and efficiency standards, such as 80 PLUS certifications, indicating power conservation capabilities.

According to a report by the U.S. Department of Energy, data centers consumed about 70 billion kilowatt-hours of electricity in 2020, accounting for approximately 1.8% of total U.S. electricity consumption.

Market Dynamics:

Driver:

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Booming data centre & cloud computing growth

The rapid expansion of data centres and cloud computing infrastructure is a primary driver of the server power supply units market. As enterprises increasingly migrate workloads to the cloud, the demand for high-performance servers continues to surge. This growth necessitates reliable and efficient power supply units to ensure uninterrupted operations. Server PSUs are essential for maintaining uptime and supporting the energy-intensive needs of modern data centres. Additionally, the rise of AI, IoT, and big data analytics is further accelerating server deployment. These trends are collectively fuelling sustained investment in advanced power supply technologies.

Restraint:

Rapid technology obsolescence

Frequent upgrades in server architecture often render existing PSUs incompatible or inefficient. This leads to increased replacement costs and inventory challenges for data centre operators. Moreover, manufacturers must continuously innovate to keep up with changing efficiency standards and form factors. Smaller enterprises may struggle to justify frequent PSU upgrades, limiting adoption. As a result, rapid obsolescence can hinder long-term investment in server power infrastructure.

Opportunity:

Growing adoption of modular & redundant designs

Modular PSUs allow for flexible configuration and easier maintenance, reducing downtime in critical server environments. Redundant systems enhance reliability by providing backup power in case of failure, which is vital for mission-critical applications. These features are particularly attractive to hyperscale data centres and enterprise IT environments. As demand for scalable and fault-tolerant infrastructure grows, vendors are focusing on customizable PSU solutions. This trend is expected to drive innovation and open new revenue streams for manufacturers.

Threat:

Design complexity & integration challenges

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The growing complexity of server architectures introduces integration challenges for power supply units. Designing PSUs that meet diverse voltage, efficiency, and thermal requirements across server models is increasingly difficult. Compatibility issues can arise when integrating PSUs with advanced cooling systems or compact server enclosures. Additionally, ensuring compliance with global energy efficiency regulations adds to design burdens. These challenges can delay product development and increase costs for manufacturers. As server environments become more sophisticated, PSU vendors must invest in R&D to stay competitive.

Covid-19 Impact

The COVID-19 pandemic initially disrupted global supply chains, affecting the availability of server power supply components. However, the surge in remote work, online services, and digital transformation led to a spike in data centre demand. This, in turn, accelerated the need for reliable server infrastructure, including power supply units. Post-pandemic, the market continues to benefit from sustained digital adoption and cloud migration. The crisis highlighted the critical role of resilient power systems in maintaining business continuity.

The single power supply segment is expected to be the largest during the forecast period

The single power supply segment is expected to account for the largest market share during the forecast period, as single PSUs are generally less expensive to manufacture and purchase compared to redundant setups. For non-critical applications or smaller businesses where downtime is tolerable, a single PSU provides a compact and economical solution. Additionally, advancements in PSU efficiency and reliability mean that a single, high-quality unit can offer stable power with minimal waste, reducing operating costs and heat generation for certain server deployments.

The healthcare segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the healthcare segment is predicted to witness the highest growth rate, due to increasing digitalization of medical services. Hospitals and clinics are investing in robust IT infrastructure to support electronic health records, telemedicine, and diagnostic systems. These applications require reliable server performance, driving demand for high-quality power supply units. The need for uninterrupted power in critical care environments further boosts PSU adoption.

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Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to its booming data centre industry. Countries like China, India, and Singapore are witnessing rapid growth in cloud services and digital infrastructure. Government initiatives supporting digital transformation are further accelerating server deployments. Additionally, rising internet penetration and mobile usage are fuelling demand for backend server infrastructure. The presence of major electronics manufacturers also contributes to regional market strength.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to its advanced IT ecosystem and strong focus on innovation. The U.S. is home to numerous hyperscale data centres and cloud service providers, driving continuous PSU demand. Investments in AI, edge computing, and 5G infrastructure are further expanding server requirements. Regulatory emphasis on energy efficiency is pushing adoption of high-performance, eco-friendly PSUs.

Key players in the market

Some of the key players profiled in the Server Power Supply Units Market include Delta Electronics, Lite-On Technology Corporation, Compuware, Artesyn Embedded Power, Chicony Power Technology, Acbel Polytech Inc., Murata Power Solutions, Bel Fuse Inc., FSP Group, Enhance Electronics, ZIPPY TECHNOLOGY, China Greatwall Technology, Seasonic Electronics Co. Ltd., Supermicro Computer Inc., and Sure Star Computer.

Key Developments:

In June 2025, Delta Electronics, Inc. announced the approval by its board of directors to acquire up to 177,142,221 ordinary shares of ACT Genomics Holdings Company Limited for up to US$71.78 million. The transaction can only be completed if more than 90% of ACT Genomics' stake in each class of ordinary shares is acquired.

In May 2025, LITEON Technology participated in Computex 2025. Together with Quanta Cloud Technology (QCT), they showcased the NVIDIA GB300 NVL72 platform AI server solution. It is configured according to the NVIDIA MGX architecture, and

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integrates 72 NVIDIA Blackwell Ultra GPUs, which provides a high-density, high-bandwidth, low-latency AI computing platform for enterprises and cloud service providers building scalable and efficient AI training and inference environments.

Product Types Covered:

- AC-DC Power Supply Units
- DC-DC Power Supply Units
- Open Frame Power Supply
- Single Power Supply
- Redundant Power Supply
- Common Redundant Power Supply (CRPS)
- Uninterruptible Power Supplies (UPS)
- Other Product Types

Power Ratings Covered:

- Below 500W
- 500W–1000W
- 1000W–2000W
- Above 2000W

Forms Covered:

- ATX Power Supply
- Redundant Power Supply (RPSU)

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Hot-swappable PSU

Custom/Proprietary PSU

Server System Infrastructure (SSI)

SFX Power Supply Units

PS2 Power Supply Units

Efficiency Certifications Covered:

80 PLUS Bronze

80 PLUS Silver

80 PLUS Gold

80 PLUS Platinum

80 PLUS Titanium

Applications Covered:

Banking, Financial Services, and Insurance (BFSI)

Data Centers

Cloud Service Providers (CSPs)

Retail & E-commerce

Enterprises (IT & Telecom)

Healthcare

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- Government & Defense
- Communication Systems
- Manufacturing
- Other Applications

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China

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India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

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- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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