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Global AI Power Supply Market Growth 2026-2032

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Abstracts

The global AI Power Supply market size is predicted to grow from US$ 4758 million in 2025 to US$ 48782 million in 2032; it is expected to grow at a CAGR of 46.7% from 2026 to 2032.

In 2025, global AI Power Supply production reached approximately 38,600 MW, with an average selling price of approximately US$126/kW, production capacity of approximately 46,500 MW, and a gross margin of approximately 24.8%.

An AI server is a data server that can provide artificial intelligence (AI). It can be used to support local applications and web pages, as well as provide complex AI models and services for cloud and local servers. AI servers help provide real-time computing services for various real-time AI applications. AI server power refers to the power used by servers specifically for artificial intelligence (AI) workloads (such as deep learning training, reasoning, high-performance computing, etc.).

The global AI Power Supply market is experiencing rapid growth, primarily driven by the expansion of generative AI, large language model training and inference workloads, and continued deployment of GPU servers and high-density AI data centers. As the power requirements of individual AI servers and racks are significantly higher than those of conventional general-purpose servers, demand for high-power server power supplies above 3 kW and rack-level centralized power solutions is increasing. Meanwhile, high-efficiency designs such as 80 PLUS Titanium, higher power density, redundant power architectures, and 48V/54V DC power architectures are becoming increasingly important. As next-generation GPU platforms further increase rack power density, AI power supply products are evolving from conventional server-level PSUs toward higher-power modular and rack-level power architectures, with major power supply manufacturers and AI server ecosystem participants continuing to expand their presence in this market.

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Report Scope

LP Information, Inc. (LPI) ' newest research report, the “AI Power Supply Industry Forecast” looks at past sales and reviews total world AI Power Supply sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Power Supply sales for 2026 through 2032. With AI Power Supply sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world AI Power Supply industry.

This Insight Report provides a comprehensive analysis of the global AI Power Supply landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI Power Supply portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global AI Power Supply market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Power Supply and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Power Supply.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Power Supply market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

AC/DC

DC/DC

UPS

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Segmentation by Rated Output Power:

Below 3 kW

3–5 kW

5–10 kW

Above 10 kW

Segmentation by Power Architecture:

Centralized Power Supply

Distributed Power Supply

Modular Power Supply

High-Voltage DC Power Supply

Segmentation by Application:

CPU Server

GPU Server

FPGA Server

This report also splits the market by region:

Americas

United States

Canada

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- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel

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Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Delta Electronics

LITEON Technology

FSP Grou

Chicony Power Technology Co

Advanced Energy

GW Instek

Hangzhou Zhongheng Electric Co

Shenzhen Honor Electronic Co

Shenzhen Megmeet Electrical Co

Kehua Data Co., Ltd.

Beijing Dynamic Power Co

Infineon Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Power Supply market?

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What factors are driving AI Power Supply market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AI Power Supply market opportunities vary by end market size?

How does AI Power Supply break out by Type, by Application?

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