

Global AI Server Power Supply Testing Equipment Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI Server Power Supply Testing Equipment market size was valued at US\$ 703 million in 2025 and is forecast to a readjusted size of US\$ 2616 million by 2032 with a CAGR of 19.2% during review period.

AI server power supply testing equipment refers to specialized testing equipment used to verify and test the performance, safety, and reliability of AI server power supply systems. It primarily targets key components such as server power supply units (PSUs), onboard power supplies, DC/DC converters, PDUs, power backplanes, and GPU/AI accelerator card power supply links. This type of equipment typically performs tests on input/output voltage, current, power, efficiency, ripple noise, dynamic load response, overvoltage/overcurrent/short circuit protection, temperature rise, aging, withstand voltage insulation, EMC/safety compliance, etc., to ensure stable operation of the power supply under high power, high density, long-term operation, and rapid load changes. As AI servers increasingly demand GPU clusters, high-power power supplies, liquid-cooled power supply architectures, and high energy efficiency, the importance of power supply testing equipment in R&D verification, production line testing, quality control, and after-sales maintenance continues to grow.

This report is a detailed and comprehensive analysis for global AI Server Power Supply Testing Equipment market. Both quantitative and qualitative analyses are presented by company, 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 AI Server Power Supply Testing Equipment market size and forecasts, in consumption value (\$ Million), 2021-2032

Global AI Server Power Supply Testing Equipment market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global AI Server Power Supply Testing Equipment market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global AI Server Power Supply Testing Equipment market shares of main players, in revenue (\$ Million), 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 AI Server Power Supply Testing Equipment

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 AI Server Power Supply Testing Equipment market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Pacific Power Source, Kikusui Electronics, Teradyne, keysight, ActionPower, Chroma, Suzhou Aliro Electronic Technology, Haich Technology, Faith, Kewell, etc.

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

Market segmentation

AI Server Power Supply Testing Equipment 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Load

Simulator

Power Supply

Other

Market segment by Test Content

Performance Testing

Aging Testing

Market segment by Application

PSU Testing

DC/DC Converter Testing

Battery Backup Unit (BBU) Testing

Power Shelf Testing

HVDC High Voltage Direct Current Testing

Electrical Safety Testing

Other

Market segment by players, this report covers

Pacific Power Source

Kikusui Electronics

Teradyne

keysight

ActionPower

Chroma

Suzhou Aliro Electronic Technology

Haich Technology

Faith

Kewell

NGI Technologies

ITECH

Ainuo

Sanwood

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe AI Server Power Supply Testing Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of AI Server Power Supply Testing Equipment, with revenue, gross margin, and global market share of AI Server Power Supply Testing Equipment from 2021 to 2026.

Chapter 3, the AI Server Power Supply Testing Equipment competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and AI Server Power Supply Testing Equipment market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of AI Server Power Supply Testing Equipment.

Chapter 13, to describe AI Server Power Supply Testing Equipment research findings and conclusion.

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