

Global AI Data Center Backup Power Supply Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI Data Center Backup Power Supply market size was valued at US\$ 11396 million in 2025 and is forecast to a readjusted size of US\$ 35417 million by 2032 with a CAGR of 14.1% during review period.

AI Data Center Backup Power Supply refers to integrated power systems designed to ensure continuous and uninterrupted electricity for AI-driven data centers in the event of grid failure or power instability. These systems typically include backup generators (diesel or gas), uninterruptible power supply (UPS), battery energy storage systems (BESS), and increasingly fuel cells, working together to provide immediate power transition and long-duration support. Due to the high power density and critical uptime requirements of AI workloads, these backup solutions must deliver fast response, high reliability, scalability, and energy efficiency. In 2025, global AI Data Center Backup Power Supply production reached approximately 27369 units, with an average global market price of around 404.7 K USD/unit. The production capacity for AI Data Center Backup Power Supply in 2025 was approximately 30000 units. The typical gross profit margin for AI Data Center Backup Power Supply between 10% and 20%.

The AI data center backup power supply market is experiencing rapid growth driven by the expansion of AI workloads, hyperscale data centers, and increasing demand for high reliability and uninterrupted power. Backup systems, including diesel generators, gas generators, battery energy storage systems (BESS), and emerging technologies such as fuel cells, are becoming more critical as AI clusters require higher power density and near-zero downtime. The market is shifting toward higher efficiency, lower emissions, and faster response solutions, with growing adoption of hybrid backup

architectures that combine generators and energy storage to meet sustainability and resilience requirements.

This report is a detailed and comprehensive analysis for global AI Data Center Backup Power Supply market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Data Center Backup Power Supply market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Data Center Backup Power Supply market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Data Center Backup Power Supply market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Data Center Backup Power Supply market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 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 Data Center Backup Power Supply

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 Data Center Backup Power Supply market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Caterpillar, Cummins, MTU (Rolls-Royce), Mitsubishi Heavy Industries, Weichai Power, Rehlko, Guangxi Yuchai, Wartsila, Generac, Tellhow Sci-Tech, etc.

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

Market Segmentation

AI Data Center Backup Power Supply 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

12-16 Cylinders

>16 Cylinders

Market segment by Cylinder Bore

Cylinder Bore:

Cylinder Bore: 130-170 mm

Cylinder Bore: > 170 mm

Market segment by Engine Type

Diesel Generator

Gas Generator

Market segment by Application

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Major players covered

Caterpillar

Cummins

MTU (Rolls-Royce)

Mitsubishi Heavy Industries

Weichai Power

Rehiko

Guangxi Yuchai

Wartsila

Generac

Tellhow Sci-Tech

Shanghai Cooltech POWER

Himoinsa

Shanghai New Power Automotive Technology

Genesal Energy

Power Hf

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AI Data Center Backup Power Supply product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Data Center Backup Power Supply, with price, sales quantity, revenue, and global market share of AI Data Center Backup Power Supply from 2021 to 2026.

Chapter 3, the AI Data Center Backup Power Supply competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Data Center Backup Power Supply breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and AI Data Center Backup Power Supply market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AI Data Center Backup Power Supply.

Chapter 14 and 15, to describe AI Data Center Backup Power Supply sales channel, distributors, customers, research findings and conclusion.

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