

Global AI Data Center Backup Power Supply Market Growth 2026-2032

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Abstracts

The global AI Data Center Backup Power Supply market size is predicted to grow from US\$ 10834 million in 2025 to US\$ 35259 million in 2032; it is expected to grow at a CAGR of 15.0% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "AI Data Center Backup Power Supply Industry Forecast" looks at past sales and reviews total world AI Data Center Backup Power Supply sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Data Center Backup Power Supply sales for 2026 through 2032. With AI Data Center Backup 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 Data Center Backup Power Supply industry.

This Insight Report provides a comprehensive analysis of the global AI Data Center Backup 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 Data Center Backup 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 Data Center Backup Power Supply market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Data Center Backup 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 Data Center Backup Power Supply.

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

Segmentation by Type:

12-16 Cylinders

>16 Cylinders

Segmentation by Cylinder Bore:

Cylinder Bore:
Cylinder Bore: 130?170 mm

Cylinder Bore: > 170 mm

Segmentation by Engine Type:

Diesel Generator

Gas Generator

Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

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.

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

Key Questions Addressed in this Report

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

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

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

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

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

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