

Global Data Center Generator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center Generator market size is expected to reach \$ 35417 million by 2032, rising at a market growth of 14.1% CAGR during the forecast period (2026-2032).

A Data Center Generator is an on-site backup power system designed to supply electricity to critical data center infrastructure during utility power outages or grid instability. Typically powered by diesel, natural gas, or dual-fuel engines, data center generators automatically start within seconds of a power failure and provide long-duration power to support IT equipment, cooling systems, and security systems, ensuring uninterrupted operation and high availability of data center services. In 2025, global Data Center Generator production reached approximately 27369 units, with an average global market price of around 404.7 K USD/unit. The production capacity for Data Center Generator in 2025 was approximately 30000 units. The typical gross profit margin for Data Center Generator between 10% and 20%.

The Data Center Generator market is driven by the rapid growth of hyperscale data centers, cloud computing, and AI workloads, which require highly reliable long-duration backup power to ensure continuous operations during grid outages. Diesel generators remain the dominant solution due to their fast start-up, high reliability, and mature supply chain, while gas and dual-fuel generators are gaining adoption as lower-emission alternatives. The market is supported by increasing investments in digital infrastructure, stricter uptime requirements, and the expansion of edge and colocation data centers, with North America and Asia-Pacific as the leading regions. Key industry trends include higher power ratings per unit, modular and containerized generator systems, compliance with stringent emission standards, and integration with microgrids and hybrid energy systems.

This report studies the global Data Center Generator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Generator and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Data Center Generator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center Generator total production and demand, 2021-2032, (Units)

Global Data Center Generator total production value, 2021-2032, (USD Million)

Global Data Center Generator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Data Center Generator consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Data Center Generator domestic production, consumption, key domestic manufacturers and share

Global Data Center Generator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Data Center Generator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Data Center Generator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Data Center Generator market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Data Center Generator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Data Center Generator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Generator Market, Segmentation by Type:

Cylinder Bore:

Cylinder Bore: 130-170 mm

Cylinder Bore: > 170 mm

Global Data Center Generator Market, Segmentation by Cylinder:

12-16 Cylinders

>16 Cylinders

Global Data Center Generator Market, Segmentation by Power Generation Type:

Diesel Generator

Gas Generator

Global Data Center Generator Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers/AI Servers

HPC Data Centers

Enterprise Data Centers

Others

Companies Profiled:

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 Answered:

1. How big is the global Data Center Generator market?
2. What is the demand of the global Data Center Generator market?
3. What is the year over year growth of the global Data Center Generator market?
4. What is the production and production value of the global Data Center Generator market?
5. Who are the key producers in the global Data Center Generator market?
6. What are the growth factors driving the market demand?

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