

Global Generator in Data Center Market Growth 2026-2032

<https://marketpublishers.com/r/G514414DA062EN.html>

Date: May 2026

Pages: 116

Price: US\$ 3,660.00 (Single User License)

ID: G514414DA062EN

Abstracts

The global Generator in Data Center market size is predicted to grow from US\$ 51.36 million in 2025 to US\$ 366 million in 2032; it is expected to grow at a CAGR of 24.3% from 2026 to 2032.

In 2025, global Generator in Data Center production reached approximately 350 units, with an average global market price of around US\$ 150 k usd per unit. The production capacity for Generator in Data Center in 2025 was approximately 400 units. The typical gross profit margin for Generator in Data Center is between 20% and 40%. A generator in a data center is a critical backup power system that provides emergency electricity when the utility grid fails or becomes unstable. Typically powered by diesel, natural gas, or dual-fuel engines, data center generators automatically start within seconds after a power outage and supply long-duration power to essential loads, including IT equipment, cooling systems, and security infrastructure. Generators work together with UPS and battery systems to ensure continuous operation, protect against service downtime, and maintain the high availability and reliability required for modern data center facilities.

The Generator in Data Center market is driven by the rapid expansion of hyperscale and AI data centers, which require highly reliable on-site backup power systems to ensure continuous operation during grid outages or power instability. Data center generators, primarily powered by diesel, natural gas, and dual-fuel technologies, are widely deployed to provide long-duration emergency power for critical IT loads, cooling systems, and security infrastructure. The market is supported by increasing investments in digital infrastructure, stricter uptime and redundancy requirements (such as N+1 and 2N architectures), and growing concerns over grid reliability. North America and Asia-Pacific are the leading regions, while industry trends focus on higher-capacity generator

sets, modular and containerized deployment, compliance with stringent emission standards, and the adoption of low-carbon alternatives such as gas and hydrogen-based systems.

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

This Insight Report provides a comprehensive analysis of the global Generator in Data Center 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 Generator in Data Center portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Generator in Data Center market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Generator in Data Center 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 Generator in Data Center.

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

Segmentation by Type:

Gas Generator

Diesel Generator

Others

Segmentation by Power:

5 MW

Segmentation by Structure:

N

N+1

2N

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

Kohler

Cummins

Generac

Mitsubishi Heavy Industries

MTU

Wartsila

HIMOinsa

GE Vernova

Shanghai Cooltech POWER

Tellus Sci-Tech

Senci Electric Machinery

Weichai Power

Changchai Company

Power Hf Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Generator in Data Center market?

What factors are driving Generator in Data Center market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?
How do Generator in Data Center market opportunities vary by end market size?
How does Generator in Data Center break out by Type, by Application?

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