

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

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Abstracts

The global Generator in Data Center market size is expected to reach \$ 360 million by 2032, rising at a market growth of 22.9% CAGR during the forecast period (2026-2032).

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.

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

This report is a detailed and comprehensive analysis of the world market for Generator in Data Center 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 Generator in Data Center that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Generator in Data Center 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, Kohler, Cummins, Generac, Mitsubishi Heavy Industries, MTU, Wartsila, HIMOINSA, GE Vernova, Shanghai Cooltech POWER, 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 Generator in Data Center 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 Generator in Data Center Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Generator in Data Center Market, Segmentation by Type:

Gas Generator

Diesel Generator

Others

Global Generator in Data Center Market, Segmentation by Power:

5 MW

Global Generator in Data Center Market, Segmentation by Structure:

N

N+1

2N

Global Generator in Data Center Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers/AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Companies Profiled:

Caterpillar

Kohler

Cummins

Generac

Mitsubishi Heavy Industries

MTU

Wartsila

HIMOINSA

GE Vernova

Shanghai Cooltech POWER

Tellhow Sci-Tech

Senci Electric Machinery

Weichai Power

Changchai Company

Power Hf Co., Ltd.

Key Questions Answered:

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

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