

Global Backup Generators for Data Centers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Backup Generators for Data Centers 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).

Backup generators for data centers are specialized power systems that provide emergency electricity when the main utility power fails. They ensure uninterrupted operation of servers, networking equipment, and critical infrastructure, protecting data integrity and maintaining continuous business operations. These generators are typically diesel, natural gas, or dual-fuel powered, and are configured with automatic transfer switches to activate immediately during a power outage. In 2025, global Backup Generators for Data Centers production reached approximately 27,369 units, with an average global market price of around 404.7 k USD/unit. The production capacity for Backup Generators for Data Centers in 2025 was approximately 30000 units. The typical gross profit margin for Backup Generators for Data Centers between 10% and 20%.

The backup generator market for data centers is growing steadily due to the increasing demand for uninterrupted power supply in cloud, AI, HPC, and enterprise facilities. Rising data traffic, expanding hyperscale cloud infrastructures, and stringent uptime requirements drive investments in high-capacity diesel, gas, and dual-fuel generators. The market is characterized by strong demand in North America, China, and Europe, with AI data centers emerging as the fastest-growing segment due to their high power density and critical reliability needs.

This report studies the global Backup Generators for Data Centers production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Backup Generators for Data Centers total production and demand, 2021-2032, (Units)

Global Backup Generators for Data Centers total production value, 2021-2032, (USD Million)

Global Backup Generators for Data Centers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Backup Generators for Data Centers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Backup Generators for Data Centers domestic production, consumption, key domestic manufacturers and share

Global Backup Generators for Data Centers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Backup Generators for Data Centers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Backup Generators for Data Centers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Backup Generators for Data Centers 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 Backup Generators for Data Centers 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 Backup Generators for Data Centers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Backup Generators for Data Centers Market, Segmentation by Type:

Cylinder Bore:

Cylinder Bore: 130?170 mm

Cylinder Bore: > 170 mm

Global Backup Generators for Data Centers Market, Segmentation by Cylinders:

12-16 Cylinders

>16 Cylinders

Global Backup Generators for Data Centers Market, Segmentation by Power Generation Type:

Diesel Generator

Gas Generator

Global Backup Generators for Data Centers 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 Backup Generators for Data Centers market?
2. What is the demand of the global Backup Generators for Data Centers market?
3. What is the year over year growth of the global Backup Generators for Data Centers market?
4. What is the production and production value of the global Backup Generators for Data Centers market?
5. Who are the key producers in the global Backup Generators for Data Centers market?
6. What are the growth factors driving the market demand?

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