

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

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Abstracts

The global Data Center Standby Diesel Generator market size is expected to reach \$ 24158 million by 2032, rising at a market growth of 16.1% CAGR during the forecast period (2026-2032).

A Data Center Standby Diesel Generator is a backup power system specifically designed to provide emergency electricity to data centers in the event of a grid failure or power instability. It typically consists of a diesel engine, alternator, control system, and fuel supply, and is integrated with automatic transfer switches (ATS) to ensure rapid startup?usually within seconds?to maintain continuous operation of critical IT loads and cooling infrastructure. These generators are engineered for high reliability, redundancy (N+1 or 2N configurations), and long-duration operation, making them essential for ensuring uptime in hyperscale, enterprise, and colocation data centers. In 2025, global Diesel Generator for Data Center production reached approximately 21893 units, with an average global market price of around 404.7 K USD/unit. The production capacity for Diesel Generator for Data Center in 2025 was approximately 25000 units. The typical gross profit margin for Diesel Generator for Data Center between 10% and 20%.

The Data Center Standby Diesel Generator market is driven by the rapid expansion of data centers, increasing digitalization, and the growing demand for uninterrupted power supply. With the rise of AI workloads, hyperscale facilities, and cloud computing, data centers require highly reliable backup systems capable of supporting high power densities and extended runtime. The market is evolving toward higher efficiency, lower emissions, and compliance with environmental regulations, while hybrid solutions integrating battery storage and alternative fuels are gaining traction to enhance sustainability and operational resilience.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Data Center Standby Diesel 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 Standby Diesel 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 Standby Diesel Generator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Standby Diesel Generator Market, Segmentation by Type:

12-16 Cylinders

>16 Cylinders

Global Data Center Standby Diesel Generator Market, Segmentation by Cylinder Bore:

Cylinder Bore:

Cylinder Bore: 130?170 mm

Cylinder Bore: > 170 mm

Global Data Center Standby Diesel Generator Market, Segmentation by Power:

Power:

Power: 1000KW-3000KW

Power: > 3000KW

Global Data Center Standby Diesel Generator Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

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

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