

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

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Abstracts

The global Data Center Diesel Generator Set 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 Diesel Generator Set (DG Set) is a high-capacity backup power system consisting of a diesel engine, alternator (generator), control system, and auxiliary components, designed to provide reliable emergency power supply to data centers during grid outages or power disturbances. These systems automatically start within seconds of a power failure and are capable of supporting critical IT loads, cooling systems, and infrastructure to ensure uninterrupted operation and zero downtime. Typically ranging from 1 MW to several megawatts per unit, diesel generator sets are widely used in hyperscale, enterprise, and colocation data centers due to their high reliability, fast response, and proven performance. In 2025, global Data Center Diesel Generator Set production reached approximately 21893 units, with an average global market price of around 404.7 K USD/unit. The production capacity for Data Center Diesel Generator Set in 2025 was approximately 25000 units. The typical gross profit margin for Data Center Diesel Generator Set between 10% and 20%.

The data center diesel generator set market is growing steadily, driven by the rapid expansion of cloud computing, AI data centers, and hyperscale infrastructure, which demand highly reliable backup power solutions. Increasing power density in data centers and stricter uptime requirements are reinforcing the role of diesel generators as a primary backup source. At the same time, the market is evolving toward higher efficiency, lower emissions, and hybrid systems integrated with battery energy storage and alternative fuels. While diesel generators remain dominant due to their maturity and reliability, regulatory pressure on carbon emissions is encouraging the adoption of

cleaner and more flexible backup power solutions.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

12-16 Cylinders

>16 Cylinders

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

Cylinder Bore:
Cylinder Bore: 130?170 mm

Cylinder Bore: > 170 mm

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

Power:
Power: 1000KW-3000KW

Power: > 3000KW

Global Data Center Diesel Generator Set 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

Rehlko

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

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