

Global Data Center Diesel Generator Set Market Growth 2026-2032

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Abstracts

The global Data Center Diesel Generator Set market size is predicted to grow from US\$ 8667 million in 2025 to US\$ 24184 million in 2032; it is expected to grow at a CAGR of 17.1% from 2026 to 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.

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

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

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

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

Segmentation by Type:

12-16 Cylinders

>16 Cylinders

Segmentation by Cylinder Bore:

Cylinder Bore:
Cylinder Bore: 130?170 mm

Cylinder Bore: > 170 mm

Segmentation by Power:

Power:
Power: 1000KW-3000KW

Power: > 3000KW

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

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 Addressed in this Report

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

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

Which technologies are poised for the fastest growth by market and region?

How do Data Center Diesel Generator Set market opportunities vary by end market size?

How does Data Center Diesel Generator Set break out by Type, by Application?

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