

Global Data Center Standby Diesel Generator Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Data Center Standby Diesel Generator market size was valued at US\$ 9117 million in 2025 and is forecast to a readjusted size of US\$ 24158 million by 2032 with a CAGR of 16.1% during review period.

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 is a detailed and comprehensive analysis for global Data Center Standby Diesel Generator market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Data Center Standby Diesel Generator market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Data Center Standby Diesel Generator market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Data Center Standby Diesel Generator market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Data Center Standby Diesel Generator market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Data Center Standby Diesel Generator

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Data Center Standby Diesel Generator market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Data Center Standby Diesel Generator market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

12-16 Cylinders

>16 Cylinders

Market segment by Cylinder Bore

Cylinder Bore:

Cylinder Bore: 130-170 mm

Cylinder Bore: > 170 mm

Market segment by Power

Power:

Power: 1000KW-3000KW

Power: > 3000KW

Market segment by Application

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Data Center Standby Diesel Generator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Data Center Standby Diesel Generator, with price, sales quantity, revenue, and global market share of Data Center Standby Diesel Generator from 2021 to 2026.

Chapter 3, the Data Center Standby Diesel Generator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Data Center Standby Diesel Generator breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Data Center Standby Diesel Generator market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Data Center Standby Diesel Generator.

Chapter 14 and 15, to describe Data Center Standby Diesel Generator sales channel, distributors, customers, research findings and conclusion.

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