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Global Data Center Backup Power Diesel Generators 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 Backup Power Diesel Generators market size was valued at US$ 32926 million in 2025 and is forecast to a readjusted size of US$ 63347 million by 2032 with a CAGR of 9.8% during review period.

Data Center Backup Power Diesel Generators are diesel-powered generator systems specifically designed to provide emergency backup electricity for data centers. They automatically start and supply continuous power to critical IT infrastructure, including servers, storage systems, networking equipment, and cooling systems, when the utility grid fails or power quality becomes unstable. These systems typically consist of a diesel engine, alternator, automatic transfer switch (ATS), control system, fuel system, and cooling system, offering rapid response, high reliability, and extended operating capability. They are widely deployed in Tier III and Tier IV data centers, hyperscale cloud facilities, AI data centers, and enterprise data centers to ensure uninterrupted operation and business continuity.

In 2025, global Data Center Backup Power Diesel Generators production reached approximately 40000 unit, and average price 800000 USD/unit, gross margin 30%.

Report Scope

This report is a detailed and comprehensive analysis for global Data Center Backup Power Diesel Generators market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the

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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 Backup Power Diesel Generators market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

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

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

Global Data Center Backup Power Diesel Generators market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (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 Backup Power Diesel Generators

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 Backup Power Diesel

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Generators 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.

Data Center Backup Power Diesel Generators 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 Segmentation

Market segment by Type

High-Speed Diesel Engine

Medium-Speed Diesel Engine

Market segment by Engine Type

High-Speed Diesel Engine

Medium-Speed Diesel Engine

Low-Speed Diesel Engine

Market segment by Application

Hyperscale Data Centers

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Colocation Data Centers

Enterprise Data Centers

Edge Data Centers

Major players covered

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

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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)

Chapter Outline

Chapter 1, to describe Data Center Backup Power Diesel Generators product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top manufacturers of Data Center Backup Power Diesel Generators, with price, sales quantity, revenue, and global market share of Data Center Backup Power Diesel Generators from 2021 to 2026.
Chapter 3, the Data Center Backup Power Diesel Generators competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.
Chapter 4, the Data Center Backup Power Diesel Generators 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 Backup Power Diesel Generators 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 Backup Power Diesel Generators.
Chapter 14 and 15, to describe Data Center Backup Power Diesel Generators sales

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channel, distributors, customers, research findings and conclusion.

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