

Global Data Center Backup Power Diesel Generators Market Growth 2026-2032

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Abstracts

The global Data Center Backup Power Diesel Generators market size is predicted to grow from US\$ 31304 million in 2025 to US\$ 62257 million in 2032; it is expected to grow at a CAGR of 10.4% from 2026 to 2032.

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%.

United States market for Data Center Backup Power Diesel Generators is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Data Center Backup Power Diesel Generators is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Data Center Backup Power Diesel Generators is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Data Center Backup Power Diesel Generators players cover Caterpillar, Cummins, MTU (Rolls-Royce), Mitsubishi Heavy Industries, Weichai Power, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Data Center Backup Power Diesel Generators market by product type,

application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

High-Speed Diesel Engine

Medium-Speed Diesel Engine

Segmentation by Engine Type:

High-Speed Diesel Engine

Medium-Speed Diesel Engine

Low-Speed Diesel Engine

Segmentation by Application:

Hyperscale Data Centers

Colocation Data Centers

Enterprise Data Centers

Edge Data Centers

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Center Backup Power Diesel Generators market?

What factors are driving Data Center Backup Power Diesel Generators market growth, globally and by region?

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

How do Data Center Backup Power Diesel Generators market opportunities vary by end market size?

How does Data Center Backup Power Diesel Generators break out by Type, by Application?

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