

Global Backup Generators for Data Centers 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 Backup Generators for Data Centers market size was valued at US\$ 9518 million in 2025 and is forecast to a readjusted size of US\$ 15537 million by 2032 with a CAGR of 7.2% during review period.

In 2025, the global data center backup generator market deploys about 25,000 units against a production capacity of roughly 32,000 units, with average unit price USD 370,000 and an average gross margin of around 31%. Backup generators for data centers are on-site power generation systems—primarily diesel and increasingly natural-gas or hybrid units—designed to provide immediate, reliable electricity during grid outages, utility instability, or planned maintenance, ensuring continuous operation of critical IT loads, cooling systems, and network infrastructure. The supply chain begins upstream with engine and alternator manufacturers (large-bore diesel and gas engines, turbochargers, crankshafts, and high-efficiency alternators), followed by midstream suppliers of generator sets (gensets), control systems (digital controllers, switchgear, protection relays), fuel systems (tanks, pumps, filtration), exhaust and aftertreatment modules (SCR, DPF), enclosures, and acoustic solutions; these components are integrated by OEMs into standardized or customized generator packages. Downstream, engineering, procurement, and construction (EPC) firms and system integrators design site-specific power architectures (N+1 or 2N redundancy), install and commission generators alongside UPS systems and automatic transfer switches (ATS), and coordinate compliance with emissions, noise, and safety regulations.

This report is a detailed and comprehensive analysis for global Backup Generators for Data Centers 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 Backup Generators for Data Centers market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global Backup Generators for Data Centers market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Backup Generators for Data Centers
- 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 Backup Generators for Data Centers 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, Generac Power Systems, MTU Solutions, Atlas Copco, Himoina, FG Wilson, Aksa Power Generation, HITEC Power, INNIO, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Backup Generators for Data Centers 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

Diesel Generators

Natural Gas Generators

Hybrid Generators

Market segment by Operational Role

Emergency Standby

Continuous Support

Market segment by Application

Small-scale Data Centers

Mid-scale Data Centers

Hyperscale Data Centers

Major players covered

Caterpillar

Cummins

Generac Power Systems

MTU Solutions

Atlas Copco

Himoinsa

FG Wilson

Aksa Power Generation

HITEC Power

INNIO

Wartsila

ABB Group

Mitsubishi

Yanmar

Perkins Engines

Siemens

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:

Global Backup Generators for Data Centers Market 2026 by Manufacturers, Regions, Type and Application, Forecas...

Chapter 1, to describe Backup Generators for Data Centers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Backup Generators for Data Centers, with price, sales quantity, revenue, and global market share of Backup Generators for Data Centers from 2021 to 2026.

Chapter 3, the Backup Generators for Data Centers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Backup Generators for Data Centers 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 Backup Generators for Data Centers 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 Backup Generators for Data Centers.

Chapter 14 and 15, to describe Backup Generators for Data Centers sales channel, distributors, customers, research findings and conclusion.

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