

# Global Data Center Diesel Generator Set 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 Diesel Generator Set 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 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.

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

Global Data Center Diesel Generator Set 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 Diesel Generator Set 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 Diesel Generator Set 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 Diesel Generator Set

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 Diesel Generator Set 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 Diesel Generator Set 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 Diesel Generator Set product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Data Center Diesel Generator Set 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 Diesel Generator Set 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 Diesel Generator Set.

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

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Data Center Diesel Generator Set Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 1.3.3 12-16 Cylinders

1.3.4 >16 Cylinders

1.4 Market Analysis by Cylinder Bore

1.4.1 Overview: Global Data Center Diesel Generator Set Consumption Value by Cylinder Bore: 2021 Versus 2025 Versus 2032

1.4.2 Cylinder Bore: 1.4.3 Cylinder Bore: 130?170 mm

1.4.4 Cylinder Bore: > 170 mm

1.5 Market Analysis by Power

1.5.1 Overview: Global Data Center Diesel Generator Set Consumption Value by Power: 2021 Versus 2025 Versus 2032

1.5.2 Power: 1.5.3 Power: 1000KW-3000KW

1.5.4 Power: > 3000KW

1.6 Market Analysis by Application

1.6.1 Overview: Global Data Center Diesel Generator Set Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Cloud Data Centers

1.6.3 AI Data Centers / AI Servers

1.6.4 High-Performance Computing (HPC)

1.6.5 Enterprise Data Centers

1.6.6 Others

1.7 Global Data Center Diesel Generator Set Market Size & Forecast

1.7.1 Global Data Center Diesel Generator Set Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Data Center Diesel Generator Set Sales Quantity (2021-2032)

1.7.3 Global Data Center Diesel Generator Set Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 Caterpillar

2.1.1 Caterpillar Details

- 2.1.2 Caterpillar Major Business
- 2.1.3 Caterpillar Data Center Diesel Generator Set Product and Services
- 2.1.4 Caterpillar Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Caterpillar Recent Developments/Updates
- 2.2 Cummins
  - 2.2.1 Cummins Details
  - 2.2.2 Cummins Major Business
  - 2.2.3 Cummins Data Center Diesel Generator Set Product and Services
  - 2.2.4 Cummins Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.2.5 Cummins Recent Developments/Updates
- 2.3 MTU (Rolls-Royce)
  - 2.3.1 MTU (Rolls-Royce) Details
  - 2.3.2 MTU (Rolls-Royce) Major Business
  - 2.3.3 MTU (Rolls-Royce) Data Center Diesel Generator Set Product and Services
  - 2.3.4 MTU (Rolls-Royce) Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.3.5 MTU (Rolls-Royce) Recent Developments/Updates
- 2.4 Mitsubishi Heavy Industries
  - 2.4.1 Mitsubishi Heavy Industries Details
  - 2.4.2 Mitsubishi Heavy Industries Major Business
  - 2.4.3 Mitsubishi Heavy Industries Data Center Diesel Generator Set Product and Services
  - 2.4.4 Mitsubishi Heavy Industries Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 Mitsubishi Heavy Industries Recent Developments/Updates
- 2.5 Weichai Power
  - 2.5.1 Weichai Power Details
  - 2.5.2 Weichai Power Major Business
  - 2.5.3 Weichai Power Data Center Diesel Generator Set Product and Services
  - 2.5.4 Weichai Power Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 Weichai Power Recent Developments/Updates
- 2.6 Rehlko
  - 2.6.1 Rehlko Details
  - 2.6.2 Rehlko Major Business
  - 2.6.3 Rehlko Data Center Diesel Generator Set Product and Services
  - 2.6.4 Rehlko Data Center Diesel Generator Set Sales Quantity, Average Price,

## Revenue, Gross Margin and Market Share (2021-2026)

### 2.6.5 Rehlko Recent Developments/Updates

## 2.7 Guangxi Yuchai

### 2.7.1 Guangxi Yuchai Details

### 2.7.2 Guangxi Yuchai Major Business

### 2.7.3 Guangxi Yuchai Data Center Diesel Generator Set Product and Services

### 2.7.4 Guangxi Yuchai Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.7.5 Guangxi Yuchai Recent Developments/Updates

## 2.8 Wartsila

### 2.8.1 Wartsila Details

### 2.8.2 Wartsila Major Business

### 2.8.3 Wartsila Data Center Diesel Generator Set Product and Services

### 2.8.4 Wartsila Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.8.5 Wartsila Recent Developments/Updates

## 2.9 Generac

### 2.9.1 Generac Details

### 2.9.2 Generac Major Business

### 2.9.3 Generac Data Center Diesel Generator Set Product and Services

### 2.9.4 Generac Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.9.5 Generac Recent Developments/Updates

## 2.10 Tellhow Sci-Tech

### 2.10.1 Tellhow Sci-Tech Details

### 2.10.2 Tellhow Sci-Tech Major Business

### 2.10.3 Tellhow Sci-Tech Data Center Diesel Generator Set Product and Services

### 2.10.4 Tellhow Sci-Tech Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.10.5 Tellhow Sci-Tech Recent Developments/Updates

## 2.11 Shanghai Cooltech POWER

### 2.11.1 Shanghai Cooltech POWER Details

### 2.11.2 Shanghai Cooltech POWER Major Business

### 2.11.3 Shanghai Cooltech POWER Data Center Diesel Generator Set Product and Services

### 2.11.4 Shanghai Cooltech POWER Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.11.5 Shanghai Cooltech POWER Recent Developments/Updates

## 2.12 Himoina

- 2.12.1 Himoina Details
- 2.12.2 Himoina Major Business
- 2.12.3 Himoina Data Center Diesel Generator Set Product and Services
- 2.12.4 Himoina Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 Himoina Recent Developments/Updates
- 2.13 Shanghai New Power Automotive Technology
  - 2.13.1 Shanghai New Power Automotive Technology Details
  - 2.13.2 Shanghai New Power Automotive Technology Major Business
  - 2.13.3 Shanghai New Power Automotive Technology Data Center Diesel Generator Set Product and Services
  - 2.13.4 Shanghai New Power Automotive Technology Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.13.5 Shanghai New Power Automotive Technology Recent Developments/Updates
- 2.14 Genesal Energy
  - 2.14.1 Genesal Energy Details
  - 2.14.2 Genesal Energy Major Business
  - 2.14.3 Genesal Energy Data Center Diesel Generator Set Product and Services
  - 2.14.4 Genesal Energy Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.14.5 Genesal Energy Recent Developments/Updates
- 2.15 Power Hf
  - 2.15.1 Power Hf Details
  - 2.15.2 Power Hf Major Business
  - 2.15.3 Power Hf Data Center Diesel Generator Set Product and Services
  - 2.15.4 Power Hf Data Center Diesel Generator Set Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.15.5 Power Hf Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: DATA CENTER DIESEL GENERATOR SET BY MANUFACTURER**

- 3.1 Global Data Center Diesel Generator Set Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Data Center Diesel Generator Set Revenue by Manufacturer (2021-2026)
- 3.3 Global Data Center Diesel Generator Set Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)

- 3.4.1 Producer Shipments of Data Center Diesel Generator Set by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- 3.4.2 Top 3 Data Center Diesel Generator Set Manufacturer Market Share in 2025
- 3.4.3 Top 6 Data Center Diesel Generator Set Manufacturer Market Share in 2025
- 3.5 Data Center Diesel Generator Set Market: Overall Company Footprint Analysis
  - 3.5.1 Data Center Diesel Generator Set Market: Region Footprint
  - 3.5.2 Data Center Diesel Generator Set Market: Company Product Type Footprint
  - 3.5.3 Data Center Diesel Generator Set Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Data Center Diesel Generator Set Market Size by Region
  - 4.1.1 Global Data Center Diesel Generator Set Sales Quantity by Region (2021-2032)
  - 4.1.2 Global Data Center Diesel Generator Set Consumption Value by Region (2021-2032)
  - 4.1.3 Global Data Center Diesel Generator Set Average Price by Region (2021-2032)
- 4.2 North America Data Center Diesel Generator Set Consumption Value (2021-2032)
- 4.3 Europe Data Center Diesel Generator Set Consumption Value (2021-2032)
- 4.4 Asia-Pacific Data Center Diesel Generator Set Consumption Value (2021-2032)
- 4.5 South America Data Center Diesel Generator Set Consumption Value (2021-2032)
- 4.6 Middle East & Africa Data Center Diesel Generator Set Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Data Center Diesel Generator Set Sales Quantity by Type (2021-2032)
- 5.2 Global Data Center Diesel Generator Set Consumption Value by Type (2021-2032)
- 5.3 Global Data Center Diesel Generator Set Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Data Center Diesel Generator Set Sales Quantity by Application (2021-2032)
- 6.2 Global Data Center Diesel Generator Set Consumption Value by Application (2021-2032)
- 6.3 Global Data Center Diesel Generator Set Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

7.1 North America Data Center Diesel Generator Set Sales Quantity by Type (2021-2032)

7.2 North America Data Center Diesel Generator Set Sales Quantity by Application (2021-2032)

7.3 North America Data Center Diesel Generator Set Market Size by Country

7.3.1 North America Data Center Diesel Generator Set Sales Quantity by Country (2021-2032)

7.3.2 North America Data Center Diesel Generator Set Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

8.1 Europe Data Center Diesel Generator Set Sales Quantity by Type (2021-2032)

8.2 Europe Data Center Diesel Generator Set Sales Quantity by Application (2021-2032)

8.3 Europe Data Center Diesel Generator Set Market Size by Country

8.3.1 Europe Data Center Diesel Generator Set Sales Quantity by Country (2021-2032)

8.3.2 Europe Data Center Diesel Generator Set Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Data Center Diesel Generator Set Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Data Center Diesel Generator Set Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Data Center Diesel Generator Set Market Size by Region

9.3.1 Asia-Pacific Data Center Diesel Generator Set Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Data Center Diesel Generator Set Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

10.1 South America Data Center Diesel Generator Set Sales Quantity by Type (2021-2032)

10.2 South America Data Center Diesel Generator Set Sales Quantity by Application (2021-2032)

10.3 South America Data Center Diesel Generator Set Market Size by Country

10.3.1 South America Data Center Diesel Generator Set Sales Quantity by Country (2021-2032)

10.3.2 South America Data Center Diesel Generator Set Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Data Center Diesel Generator Set Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Data Center Diesel Generator Set Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Data Center Diesel Generator Set Market Size by Country

11.3.1 Middle East & Africa Data Center Diesel Generator Set Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Data Center Diesel Generator Set Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

- 12.1 Data Center Diesel Generator Set Market Drivers
- 12.2 Data Center Diesel Generator Set Market Restraints
- 12.3 Data Center Diesel Generator Set Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Data Center Diesel Generator Set and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Data Center Diesel Generator Set
- 13.3 Data Center Diesel Generator Set Production Process
- 13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Data Center Diesel Generator Set Typical Distributors
- 14.3 Data Center Diesel Generator Set Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Data Center Diesel Generator Set Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Data Center Diesel Generator Set Consumption Value by Cylinder Bore, (USD Million), 2021 & 2025 & 2032

Table 3. Global Data Center Diesel Generator Set Consumption Value by Power, (USD Million), 2021 & 2025 & 2032

Table 4. Global Data Center Diesel Generator Set Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Caterpillar Basic Information, Manufacturing Base and Competitors

Table 6. Caterpillar Major Business

Table 7. Caterpillar Data Center Diesel Generator Set Product and Services

Table 8. Caterpillar Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Caterpillar Recent Developments/Updates

Table 10. Cummins Basic Information, Manufacturing Base and Competitors

Table 11. Cummins Major Business

Table 12. Cummins Data Center Diesel Generator Set Product and Services

Table 13. Cummins Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Cummins Recent Developments/Updates

Table 15. MTU (Rolls-Royce) Basic Information, Manufacturing Base and Competitors

Table 16. MTU (Rolls-Royce) Major Business

Table 17. MTU (Rolls-Royce) Data Center Diesel Generator Set Product and Services

Table 18. MTU (Rolls-Royce) Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. MTU (Rolls-Royce) Recent Developments/Updates

Table 20. Mitsubishi Heavy Industries Basic Information, Manufacturing Base and Competitors

Table 21. Mitsubishi Heavy Industries Major Business

Table 22. Mitsubishi Heavy Industries Data Center Diesel Generator Set Product and Services

Table 23. Mitsubishi Heavy Industries Data Center Diesel Generator Set Sales Quantity

(Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Mitsubishi Heavy Industries Recent Developments/Updates

Table 25. Weichai Power Basic Information, Manufacturing Base and Competitors

Table 26. Weichai Power Major Business

Table 27. Weichai Power Data Center Diesel Generator Set Product and Services

Table 28. Weichai Power Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Weichai Power Recent Developments/Updates

Table 30. Rehlko Basic Information, Manufacturing Base and Competitors

Table 31. Rehlko Major Business

Table 32. Rehlko Data Center Diesel Generator Set Product and Services

Table 33. Rehlko Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Rehlko Recent Developments/Updates

Table 35. Guangxi Yuchai Basic Information, Manufacturing Base and Competitors

Table 36. Guangxi Yuchai Major Business

Table 37. Guangxi Yuchai Data Center Diesel Generator Set Product and Services

Table 38. Guangxi Yuchai Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Guangxi Yuchai Recent Developments/Updates

Table 40. Wartsila Basic Information, Manufacturing Base and Competitors

Table 41. Wartsila Major Business

Table 42. Wartsila Data Center Diesel Generator Set Product and Services

Table 43. Wartsila Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Wartsila Recent Developments/Updates

Table 45. Generac Basic Information, Manufacturing Base and Competitors

Table 46. Generac Major Business

Table 47. Generac Data Center Diesel Generator Set Product and Services

Table 48. Generac Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Generac Recent Developments/Updates

Table 50. Tellhow Sci-Tech Basic Information, Manufacturing Base and Competitors

Table 51. Tellhow Sci-Tech Major Business

Table 52. Tellhow Sci-Tech Data Center Diesel Generator Set Product and Services

Table 53. Tellhow Sci-Tech Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Tellhow Sci-Tech Recent Developments/Updates

Table 55. Shanghai Cooltech POWER Basic Information, Manufacturing Base and Competitors

Table 56. Shanghai Cooltech POWER Major Business

Table 57. Shanghai Cooltech POWER Data Center Diesel Generator Set Product and Services

Table 58. Shanghai Cooltech POWER Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Shanghai Cooltech POWER Recent Developments/Updates

Table 60. Himoinisa Basic Information, Manufacturing Base and Competitors

Table 61. Himoinisa Major Business

Table 62. Himoinisa Data Center Diesel Generator Set Product and Services

Table 63. Himoinisa Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Himoinisa Recent Developments/Updates

Table 65. Shanghai New Power Automotive Technology Basic Information, Manufacturing Base and Competitors

Table 66. Shanghai New Power Automotive Technology Major Business

Table 67. Shanghai New Power Automotive Technology Data Center Diesel Generator Set Product and Services

Table 68. Shanghai New Power Automotive Technology Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Shanghai New Power Automotive Technology Recent Developments/Updates

Table 70. Genesal Energy Basic Information, Manufacturing Base and Competitors

Table 71. Genesal Energy Major Business

Table 72. Genesal Energy Data Center Diesel Generator Set Product and Services

Table 73. Genesal Energy Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Genesal Energy Recent Developments/Updates

Table 75. Power Hf Basic Information, Manufacturing Base and Competitors

Table 76. Power Hf Major Business

Table 77. Power Hf Data Center Diesel Generator Set Product and Services

Table 78. Power Hf Data Center Diesel Generator Set Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Power Hf Recent Developments/Updates

Table 80. Global Data Center Diesel Generator Set Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 81. Global Data Center Diesel Generator Set Revenue by Manufacturer (2021-2026) & (USD Million)

Table 82. Global Data Center Diesel Generator Set Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 83. Market Position of Manufacturers in Data Center Diesel Generator Set, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 84. Head Office and Data Center Diesel Generator Set Production Site of Key Manufacturer

Table 85. Data Center Diesel Generator Set Market: Company Product Type Footprint

Table 86. Data Center Diesel Generator Set Market: Company Product Application Footprint

Table 87. Data Center Diesel Generator Set New Market Entrants and Barriers to Market Entry

Table 88. Data Center Diesel Generator Set Mergers, Acquisition, Agreements, and Collaborations

Table 89. Global Data Center Diesel Generator Set Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 90. Global Data Center Diesel Generator Set Sales Quantity by Region (2021-2026) & (Units)

Table 91. Global Data Center Diesel Generator Set Sales Quantity by Region (2027-2032) & (Units)

Table 92. Global Data Center Diesel Generator Set Consumption Value by Region (2021-2026) & (USD Million)

Table 93. Global Data Center Diesel Generator Set Consumption Value by Region (2027-2032) & (USD Million)

Table 94. Global Data Center Diesel Generator Set Average Price by Region (2021-2026) & (K US\$/Unit)

Table 95. Global Data Center Diesel Generator Set Average Price by Region (2027-2032) & (K US\$/Unit)

Table 96. Global Data Center Diesel Generator Set Sales Quantity by Type (2021-2026) & (Units)

Table 97. Global Data Center Diesel Generator Set Sales Quantity by Type (2027-2032) & (Units)

Table 98. Global Data Center Diesel Generator Set Consumption Value by Type (2021-2026) & (USD Million)

Table 99. Global Data Center Diesel Generator Set Consumption Value by Type (2027-2032) & (USD Million)

Table 100. Global Data Center Diesel Generator Set Average Price by Type (2021-2026) & (K US\$/Unit)

Table 101. Global Data Center Diesel Generator Set Average Price by Type (2027-2032) & (K US\$/Unit)

Table 102. Global Data Center Diesel Generator Set Sales Quantity by Application (2021-2026) & (Units)

Table 103. Global Data Center Diesel Generator Set Sales Quantity by Application (2027-2032) & (Units)

Table 104. Global Data Center Diesel Generator Set Consumption Value by Application (2021-2026) & (USD Million)

Table 105. Global Data Center Diesel Generator Set Consumption Value by Application (2027-2032) & (USD Million)

Table 106. Global Data Center Diesel Generator Set Average Price by Application (2021-2026) & (K US\$/Unit)

Table 107. Global Data Center Diesel Generator Set Average Price by Application (2027-2032) & (K US\$/Unit)

Table 108. North America Data Center Diesel Generator Set Sales Quantity by Type (2021-2026) & (Units)

Table 109. North America Data Center Diesel Generator Set Sales Quantity by Type (2027-2032) & (Units)

Table 110. North America Data Center Diesel Generator Set Sales Quantity by Application (2021-2026) & (Units)

Table 111. North America Data Center Diesel Generator Set Sales Quantity by Application (2027-2032) & (Units)

Table 112. North America Data Center Diesel Generator Set Sales Quantity by Country (2021-2026) & (Units)

Table 113. North America Data Center Diesel Generator Set Sales Quantity by Country (2027-2032) & (Units)

Table 114. North America Data Center Diesel Generator Set Consumption Value by Country (2021-2026) & (USD Million)

Table 115. North America Data Center Diesel Generator Set Consumption Value by Country (2027-2032) & (USD Million)

Table 116. Europe Data Center Diesel Generator Set Sales Quantity by Type

(2021-2026) & (Units)

Table 117. Europe Data Center Diesel Generator Set Sales Quantity by Type

(2027-2032) & (Units)

Table 118. Europe Data Center Diesel Generator Set Sales Quantity by Application

(2021-2026) & (Units)

Table 119. Europe Data Center Diesel Generator Set Sales Quantity by Application

(2027-2032) & (Units)

Table 120. Europe Data Center Diesel Generator Set Sales Quantity by Country

(2021-2026) & (Units)

Table 121. Europe Data Center Diesel Generator Set Sales Quantity by Country

(2027-2032) & (Units)

Table 122. Europe Data Center Diesel Generator Set Consumption Value by Country

(2021-2026) & (USD Million)

Table 123. Europe Data Center Diesel Generator Set Consumption Value by Country

(2027-2032) & (USD Million)

Table 124. Asia-Pacific Data Center Diesel Generator Set Sales Quantity by Type

(2021-2026) & (Units)

Table 125. Asia-Pacific Data Center Diesel Generator Set Sales Quantity by Type

(2027-2032) & (Units)

Table 126. Asia-Pacific Data Center Diesel Generator Set Sales Quantity by Application

(2021-2026) & (Units)

Table 127. Asia-Pacific Data Center Diesel Generator Set Sales Quantity by Application

(2027-2032) & (Units)

Table 128. Asia-Pacific Data Center Diesel Generator Set Sales Quantity by Region

(2021-2026) & (Units)

Table 129. Asia-Pacific Data Center Diesel Generator Set Sales Quantity by Region

(2027-2032) & (Units)

Table 130. Asia-Pacific Data Center Diesel Generator Set Consumption Value by

Region (2021-2026) & (USD Million)

Table 131. Asia-Pacific Data Center Diesel Generator Set Consumption Value by

Region (2027-2032) & (USD Million)

Table 132. South America Data Center Diesel Generator Set Sales Quantity by Type

(2021-2026) & (Units)

Table 133. South America Data Center Diesel Generator Set Sales Quantity by Type

(2027-2032) & (Units)

Table 134. South America Data Center Diesel Generator Set Sales Quantity by

Application (2021-2026) & (Units)

Table 135. South America Data Center Diesel Generator Set Sales Quantity by

Application (2027-2032) & (Units)

Table 136. South America Data Center Diesel Generator Set Sales Quantity by Country (2021-2026) & (Units)

Table 137. South America Data Center Diesel Generator Set Sales Quantity by Country (2027-2032) & (Units)

Table 138. South America Data Center Diesel Generator Set Consumption Value by Country (2021-2026) & (USD Million)

Table 139. South America Data Center Diesel Generator Set Consumption Value by Country (2027-2032) & (USD Million)

Table 140. Middle East & Africa Data Center Diesel Generator Set Sales Quantity by Type (2021-2026) & (Units)

Table 141. Middle East & Africa Data Center Diesel Generator Set Sales Quantity by Type (2027-2032) & (Units)

Table 142. Middle East & Africa Data Center Diesel Generator Set Sales Quantity by Application (2021-2026) & (Units)

Table 143. Middle East & Africa Data Center Diesel Generator Set Sales Quantity by Application (2027-2032) & (Units)

Table 144. Middle East & Africa Data Center Diesel Generator Set Sales Quantity by Country (2021-2026) & (Units)

Table 145. Middle East & Africa Data Center Diesel Generator Set Sales Quantity by Country (2027-2032) & (Units)

Table 146. Middle East & Africa Data Center Diesel Generator Set Consumption Value by Country (2021-2026) & (USD Million)

Table 147. Middle East & Africa Data Center Diesel Generator Set Consumption Value by Country (2027-2032) & (USD Million)

Table 148. Data Center Diesel Generator Set Raw Material

Table 149. Key Manufacturers of Data Center Diesel Generator Set Raw Materials

Table 150. Data Center Diesel Generator Set Typical Distributors

Table 151. Data Center Diesel Generator Set Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Data Center Diesel Generator Set Picture

Figure 2. Global Data Center Diesel Generator Set Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Data Center Diesel Generator Set Revenue Market Share by Type in 2025

Figure 4. Figure 5. 12-16 Cylinders Examples

Figure 6. >16 Cylinders Examples

Figure 7. Global Data Center Diesel Generator Set Revenue by Cylinder Bore, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Data Center Diesel Generator Set Revenue Market Share by Cylinder Bore in 2025

Figure 9. Cylinder Bore: Figure 10. Cylinder Bore: 130?170 mm Examples

Figure 11. Cylinder Bore: > 170 mm Examples

Figure 12. Global Data Center Diesel Generator Set Revenue by Power, (USD Million), 2021 & 2025 & 2032

Figure 13. Global Data Center Diesel Generator Set Revenue Market Share by Power in 2025

Figure 14. Power: Figure 15. Power: 1000KW-3000KW Examples

Figure 16. Power: > 3000KW Examples

Figure 17. Global Data Center Diesel Generator Set Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 18. Global Data Center Diesel Generator Set Revenue Market Share by Application in 2025

Figure 19. Cloud Data Centers Examples

Figure 20. AI Data Centers / AI Servers Examples

Figure 21. High-Performance Computing (HPC) Examples

Figure 22. Enterprise Data Centers Examples

Figure 23. Others Examples

Figure 24. Global Data Center Diesel Generator Set Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 25. Global Data Center Diesel Generator Set Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global Data Center Diesel Generator Set Sales Quantity (2021-2032) & (Units)

Figure 27. Global Data Center Diesel Generator Set Price (2021-2032) & (K US\$/Unit)

Figure 28. Global Data Center Diesel Generator Set Sales Quantity Market Share by Manufacturer in 2025

Figure 29. Global Data Center Diesel Generator Set Revenue Market Share by Manufacturer in 2025

Figure 30. Producer Shipments of Data Center Diesel Generator Set by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 31. Top 3 Data Center Diesel Generator Set Manufacturer (Revenue) Market Share in 2025

Figure 32. Top 6 Data Center Diesel Generator Set Manufacturer (Revenue) Market Share in 2025

Figure 33. Global Data Center Diesel Generator Set Sales Quantity Market Share by Region (2021-2032)

Figure 34. Global Data Center Diesel Generator Set Consumption Value Market Share by Region (2021-2032)

Figure 35. North America Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)

Figure 38. South America Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)

Figure 40. Global Data Center Diesel Generator Set Sales Quantity Market Share by Type (2021-2032)

Figure 41. Global Data Center Diesel Generator Set Consumption Value Market Share by Type (2021-2032)

Figure 42. Global Data Center Diesel Generator Set Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 43. Global Data Center Diesel Generator Set Sales Quantity Market Share by Application (2021-2032)

Figure 44. Global Data Center Diesel Generator Set Revenue Market Share by Application (2021-2032)

Figure 45. Global Data Center Diesel Generator Set Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 46. North America Data Center Diesel Generator Set Sales Quantity Market Share by Type (2021-2032)

Figure 47. North America Data Center Diesel Generator Set Sales Quantity Market

Share by Application (2021-2032)

Figure 48. North America Data Center Diesel Generator Set Sales Quantity Market

Share by Country (2021-2032)

Figure 49. North America Data Center Diesel Generator Set Consumption Value Market

Share by Country (2021-2032)

Figure 50. United States Data Center Diesel Generator Set Consumption Value  
(2021-2032) & (USD Million)

Figure 51. Canada Data Center Diesel Generator Set Consumption Value (2021-2032)  
& (USD Million)

Figure 52. Mexico Data Center Diesel Generator Set Consumption Value (2021-2032) &  
(USD Million)

Figure 53. Europe Data Center Diesel Generator Set Sales Quantity Market Share by  
Type (2021-2032)

Figure 54. Europe Data Center Diesel Generator Set Sales Quantity Market Share by  
Application (2021-2032)

Figure 55. Europe Data Center Diesel Generator Set Sales Quantity Market Share by  
Country (2021-2032)

Figure 56. Europe Data Center Diesel Generator Set Consumption Value Market Share  
by Country (2021-2032)

Figure 57. Germany Data Center Diesel Generator Set Consumption Value (2021-2032)  
& (USD Million)

Figure 58. France Data Center Diesel Generator Set Consumption Value (2021-2032) &  
(USD Million)

Figure 59. United Kingdom Data Center Diesel Generator Set Consumption Value  
(2021-2032) & (USD Million)

Figure 60. Russia Data Center Diesel Generator Set Consumption Value (2021-2032) &  
(USD Million)

Figure 61. Italy Data Center Diesel Generator Set Consumption Value (2021-2032) &  
(USD Million)

Figure 62. Asia-Pacific Data Center Diesel Generator Set Sales Quantity Market Share  
by Type (2021-2032)

Figure 63. Asia-Pacific Data Center Diesel Generator Set Sales Quantity Market Share  
by Application (2021-2032)

Figure 64. Asia-Pacific Data Center Diesel Generator Set Sales Quantity Market Share  
by Region (2021-2032)

Figure 65. Asia-Pacific Data Center Diesel Generator Set Consumption Value Market  
Share by Region (2021-2032)

Figure 66. China Data Center Diesel Generator Set Consumption Value (2021-2032) &  
(USD Million)

- Figure 67. Japan Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)
- Figure 68. South Korea Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)
- Figure 69. India Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)
- Figure 70. Southeast Asia Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)
- Figure 71. Australia Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)
- Figure 72. South America Data Center Diesel Generator Set Sales Quantity Market Share by Type (2021-2032)
- Figure 73. South America Data Center Diesel Generator Set Sales Quantity Market Share by Application (2021-2032)
- Figure 74. South America Data Center Diesel Generator Set Sales Quantity Market Share by Country (2021-2032)
- Figure 75. South America Data Center Diesel Generator Set Consumption Value Market Share by Country (2021-2032)
- Figure 76. Brazil Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)
- Figure 77. Argentina Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)
- Figure 78. Middle East & Africa Data Center Diesel Generator Set Sales Quantity Market Share by Type (2021-2032)
- Figure 79. Middle East & Africa Data Center Diesel Generator Set Sales Quantity Market Share by Application (2021-2032)
- Figure 80. Middle East & Africa Data Center Diesel Generator Set Sales Quantity Market Share by Country (2021-2032)
- Figure 81. Middle East & Africa Data Center Diesel Generator Set Consumption Value Market Share by Country (2021-2032)
- Figure 82. Turkey Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)
- Figure 83. Egypt Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)
- Figure 84. Saudi Arabia Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)
- Figure 85. South Africa Data Center Diesel Generator Set Consumption Value (2021-2032) & (USD Million)
- Figure 86. Data Center Diesel Generator Set Market Drivers

Figure 87. Data Center Diesel Generator Set Market Restraints

Figure 88. Data Center Diesel Generator Set Market Trends

Figure 89. Porters Five Forces Analysis

Figure 90. Manufacturing Cost Structure Analysis of Data Center Diesel Generator Set in 2025

Figure 91. Manufacturing Process Analysis of Data Center Diesel Generator Set

Figure 92. Data Center Diesel Generator Set Industrial Chain

Figure 93. Sales Channel: Direct to End-User vs Distributors

Figure 94. Direct Channel Pros & Cons

Figure 95. Indirect Channel Pros & Cons

Figure 96. Methodology

Figure 97. Research Process and Data Source

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