

Global Data Center Standby Diesel Generator Market Growth 2026-2032

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Abstracts

The global Data Center Standby Diesel Generator market size is predicted to grow from US\$ 8667 million in 2025 to US\$ 24184 million in 2032; it is expected to grow at a CAGR of 17.1% from 2026 to 2032.

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.

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Data Center Standby Diesel Generator market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

12-16 Cylinders

>16 Cylinders

Segmentation by Cylinder Bore:

Cylinder Bore:

Cylinder Bore: 130?170 mm

Cylinder Bore: > 170 mm

Segmentation by Power:

Power:

Power: 1000KW-3000KW

Power: > 3000KW

Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

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

Power Hf

Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Center Standby Diesel Generator market?

What factors are driving Data Center Standby Diesel Generator market growth, globally and by region?

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

How do Data Center Standby Diesel Generator market opportunities vary by end market size?

How does Data Center Standby Diesel Generator break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Data Center Standby Diesel Generator Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Data Center Standby Diesel Generator by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Data Center Standby Diesel Generator by Country/Region, 2021, 2025 & 2032

2.2 Data Center Standby Diesel Generator Segment by Type

- 2.2.1 2.2.2 12-16 Cylinders
- 2.2.3 >16 Cylinders
- 2.2.4 Data Center Standby Diesel Generator Sales by Type
 - 2.2.4.1 Global Data Center Standby Diesel Generator Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Data Center Standby Diesel Generator Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Data Center Standby Diesel Generator Sale Price by Type (2021-2026)

2.3 Data Center Standby Diesel Generator Segment by Cylinder Bore

- 2.3.1 Cylinder Bore: 2.3.2 Cylinder Bore: 130?170 mm
- 2.3.3 Cylinder Bore: > 170 mm
- 2.3.4 Data Center Standby Diesel Generator Sales by Cylinder Bore
 - 2.3.4.1 Global Data Center Standby Diesel Generator Sales Market Share by Cylinder Bore (2021-2026)
 - 2.3.4.2 Global Data Center Standby Diesel Generator Revenue and Market Share by Cylinder Bore (2021-2026)

2.3.4.3 Global Data Center Standby Diesel Generator Sale Price by Cylinder Bore (2021-2026)

2.4 Data Center Standby Diesel Generator Segment by Power

2.4.1 Power: 2.4.2 Power: 1000KW-3000KW

2.4.3 Power: > 3000KW

2.4.4 Data Center Standby Diesel Generator Sales by Power

2.4.4.1 Global Data Center Standby Diesel Generator Sales Market Share by Power (2021-2026)

2.4.4.2 Global Data Center Standby Diesel Generator Revenue and Market Share by Power (2021-2026)

2.4.4.3 Global Data Center Standby Diesel Generator Sale Price by Power (2021-2026)

2.5 Data Center Standby Diesel Generator Segment by Application

2.5.1 Cloud Data Centers

2.5.2 AI Data Centers / AI Servers

2.5.3 High-Performance Computing (HPC)

2.5.4 Enterprise Data Centers

2.5.5 Others

2.5.6 Data Center Standby Diesel Generator Sales by Application

2.5.6.1 Global Data Center Standby Diesel Generator Sale Market Share by Application (2021-2026)

2.5.6.2 Global Data Center Standby Diesel Generator Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Data Center Standby Diesel Generator Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Data Center Standby Diesel Generator Breakdown Data by Company

3.1.1 Global Data Center Standby Diesel Generator Annual Sales by Company (2021-2026)

3.1.2 Global Data Center Standby Diesel Generator Sales Market Share by Company (2021-2026)

3.2 Global Data Center Standby Diesel Generator Annual Revenue by Company (2021-2026)

3.2.1 Global Data Center Standby Diesel Generator Revenue by Company (2021-2026)

3.2.2 Global Data Center Standby Diesel Generator Revenue Market Share by Company (2021-2026)

- 3.3 Global Data Center Standby Diesel Generator Sale Price by Company
- 3.4 Key Manufacturers Data Center Standby Diesel Generator Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Data Center Standby Diesel Generator Product Location Distribution
 - 3.4.2 Players Data Center Standby Diesel Generator Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR DATA CENTER STANDBY DIESEL GENERATOR BY GEOGRAPHIC REGION

- 4.1 World Historic Data Center Standby Diesel Generator Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Data Center Standby Diesel Generator Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Data Center Standby Diesel Generator Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Data Center Standby Diesel Generator Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Data Center Standby Diesel Generator Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Data Center Standby Diesel Generator Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Data Center Standby Diesel Generator Sales Growth
- 4.4 APAC Data Center Standby Diesel Generator Sales Growth
- 4.5 Europe Data Center Standby Diesel Generator Sales Growth
- 4.6 Middle East & Africa Data Center Standby Diesel Generator Sales Growth

5 AMERICAS

- 5.1 Americas Data Center Standby Diesel Generator Sales by Country
 - 5.1.1 Americas Data Center Standby Diesel Generator Sales by Country (2021-2026)
 - 5.1.2 Americas Data Center Standby Diesel Generator Revenue by Country (2021-2026)
- 5.2 Americas Data Center Standby Diesel Generator Sales by Type (2021-2026)

5.3 Americas Data Center Standby Diesel Generator Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Data Center Standby Diesel Generator Sales by Region

6.1.1 APAC Data Center Standby Diesel Generator Sales by Region (2021-2026)

6.1.2 APAC Data Center Standby Diesel Generator Revenue by Region (2021-2026)

6.2 APAC Data Center Standby Diesel Generator Sales by Type (2021-2026)

6.3 APAC Data Center Standby Diesel Generator Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Data Center Standby Diesel Generator by Country

7.1.1 Europe Data Center Standby Diesel Generator Sales by Country (2021-2026)

7.1.2 Europe Data Center Standby Diesel Generator Revenue by Country (2021-2026)

7.2 Europe Data Center Standby Diesel Generator Sales by Type (2021-2026)

7.3 Europe Data Center Standby Diesel Generator Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Data Center Standby Diesel Generator by Country

8.1.1 Middle East & Africa Data Center Standby Diesel Generator Sales by Country (2021-2026)

8.1.2 Middle East & Africa Data Center Standby Diesel Generator Revenue by Country (2021-2026)

8.2 Middle East & Africa Data Center Standby Diesel Generator Sales by Type (2021-2026)

8.3 Middle East & Africa Data Center Standby Diesel Generator Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Data Center Standby Diesel Generator

10.3 Manufacturing Process Analysis of Data Center Standby Diesel Generator

10.4 Industry Chain Structure of Data Center Standby Diesel Generator

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Data Center Standby Diesel Generator Distributors

11.3 Data Center Standby Diesel Generator Customer

12 WORLD FORECAST REVIEW FOR DATA CENTER STANDBY DIESEL GENERATOR BY GEOGRAPHIC REGION

12.1 Global Data Center Standby Diesel Generator Market Size Forecast by Region

12.1.1 Global Data Center Standby Diesel Generator Forecast by Region (2027-2032)

12.1.2 Global Data Center Standby Diesel Generator Annual Revenue Forecast by

Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Data Center Standby Diesel Generator Forecast by Type (2027-2032)

12.7 Global Data Center Standby Diesel Generator Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Caterpillar

13.1.1 Caterpillar Company Information

13.1.2 Caterpillar Data Center Standby Diesel Generator Product Portfolios and Specifications

13.1.3 Caterpillar Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Caterpillar Main Business Overview

13.1.5 Caterpillar Latest Developments

13.2 Cummins

13.2.1 Cummins Company Information

13.2.2 Cummins Data Center Standby Diesel Generator Product Portfolios and Specifications

13.2.3 Cummins Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Cummins Main Business Overview

13.2.5 Cummins Latest Developments

13.3 MTU (Rolls?Royce)

13.3.1 MTU (Rolls?Royce) Company Information

13.3.2 MTU (Rolls?Royce) Data Center Standby Diesel Generator Product Portfolios and Specifications

13.3.3 MTU (Rolls?Royce) Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 MTU (Rolls?Royce) Main Business Overview

13.3.5 MTU (Rolls?Royce) Latest Developments

13.4 Mitsubishi Heavy Industries

13.4.1 Mitsubishi Heavy Industries Company Information

13.4.2 Mitsubishi Heavy Industries Data Center Standby Diesel Generator Product Portfolios and Specifications

13.4.3 Mitsubishi Heavy Industries Data Center Standby Diesel Generator Sales,

Revenue, Price and Gross Margin (2021-2026)

13.4.4 Mitsubishi Heavy Industries Main Business Overview

13.4.5 Mitsubishi Heavy Industries Latest Developments

13.5 Weichai Power

13.5.1 Weichai Power Company Information

13.5.2 Weichai Power Data Center Standby Diesel Generator Product Portfolios and Specifications

13.5.3 Weichai Power Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Weichai Power Main Business Overview

13.5.5 Weichai Power Latest Developments

13.6 Rehlko

13.6.1 Rehlko Company Information

13.6.2 Rehlko Data Center Standby Diesel Generator Product Portfolios and Specifications

13.6.3 Rehlko Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Rehlko Main Business Overview

13.6.5 Rehlko Latest Developments

13.7 Guangxi Yuchai

13.7.1 Guangxi Yuchai Company Information

13.7.2 Guangxi Yuchai Data Center Standby Diesel Generator Product Portfolios and Specifications

13.7.3 Guangxi Yuchai Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Guangxi Yuchai Main Business Overview

13.7.5 Guangxi Yuchai Latest Developments

13.8 Wartsila

13.8.1 Wartsila Company Information

13.8.2 Wartsila Data Center Standby Diesel Generator Product Portfolios and Specifications

13.8.3 Wartsila Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Wartsila Main Business Overview

13.8.5 Wartsila Latest Developments

13.9 Generac

13.9.1 Generac Company Information

13.9.2 Generac Data Center Standby Diesel Generator Product Portfolios and Specifications

13.9.3 Generac Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Generac Main Business Overview

13.9.5 Generac Latest Developments

13.10 Tellhow Sci-Tech

13.10.1 Tellhow Sci-Tech Company Information

13.10.2 Tellhow Sci-Tech Data Center Standby Diesel Generator Product Portfolios and Specifications

13.10.3 Tellhow Sci-Tech Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Tellhow Sci-Tech Main Business Overview

13.10.5 Tellhow Sci-Tech Latest Developments

13.11 Shanghai Cooltech POWER

13.11.1 Shanghai Cooltech POWER Company Information

13.11.2 Shanghai Cooltech POWER Data Center Standby Diesel Generator Product Portfolios and Specifications

13.11.3 Shanghai Cooltech POWER Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Shanghai Cooltech POWER Main Business Overview

13.11.5 Shanghai Cooltech POWER Latest Developments

13.12 Himoina

13.12.1 Himoina Company Information

13.12.2 Himoina Data Center Standby Diesel Generator Product Portfolios and Specifications

13.12.3 Himoina Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Himoina Main Business Overview

13.12.5 Himoina Latest Developments

13.13 Shanghai New Power Automotive Technology

13.13.1 Shanghai New Power Automotive Technology Company Information

13.13.2 Shanghai New Power Automotive Technology Data Center Standby Diesel Generator Product Portfolios and Specifications

13.13.3 Shanghai New Power Automotive Technology Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Shanghai New Power Automotive Technology Main Business Overview

13.13.5 Shanghai New Power Automotive Technology Latest Developments

13.14 Genesal Energy

13.14.1 Genesal Energy Company Information

13.14.2 Genesal Energy Data Center Standby Diesel Generator Product Portfolios and

Specifications

13.14.3 Genesal Energy Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Genesal Energy Main Business Overview

13.14.5 Genesal Energy Latest Developments

13.15 Power Hf

13.15.1 Power Hf Company Information

13.15.2 Power Hf Data Center Standby Diesel Generator Product Portfolios and Specifications

13.15.3 Power Hf Data Center Standby Diesel Generator Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Power Hf Main Business Overview

13.15.5 Power Hf Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Data Center Standby Diesel Generator Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Data Center Standby Diesel Generator Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Table 4. Major Players of 12-16 Cylinders

Table 5. Major Players of >16 Cylinders

Table 6. Global Data Center Standby Diesel Generator Sales by Type (2021-2026) & (Units)

Table 7. Global Data Center Standby Diesel Generator Sales Market Share by Type (2021-2026)

Table 8. Global Data Center Standby Diesel Generator Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Data Center Standby Diesel Generator Revenue Market Share by Type (2021-2026)

Table 10. Global Data Center Standby Diesel Generator Sale Price by Type (2021-2026) & (K US\$/Unit)

Table 11. Major Players of Cylinder Bore: Table 12. Major Players of Cylinder Bore: 130?170 mm

Table 13. Major Players of Cylinder Bore: > 170 mm

Table 14. Global Data Center Standby Diesel Generator Sales by Cylinder Bore (2021-2026) & (Units)

Table 15. Global Data Center Standby Diesel Generator Sales Market Share by Cylinder Bore (2021-2026)

Table 16. Global Data Center Standby Diesel Generator Revenue by Cylinder Bore (2021-2026) & (\$ million)

Table 17. Global Data Center Standby Diesel Generator Revenue Market Share by Cylinder Bore (2021-2026)

Table 18. Global Data Center Standby Diesel Generator Sale Price by Cylinder Bore (2021-2026) & (K US\$/Unit)

Table 19. Major Players of Power: Table 20. Major Players of Power: 1000KW-3000KW

Table 21. Major Players of Power: > 3000KW

Table 22. Global Data Center Standby Diesel Generator Sales by Power (2021-2026) & (Units)

Table 23. Global Data Center Standby Diesel Generator Sales Market Share by Power (2021-2026)

- Table 24. Global Data Center Standby Diesel Generator Revenue by Power (2021-2026) & (\$ million)
- Table 25. Global Data Center Standby Diesel Generator Revenue Market Share by Power (2021-2026)
- Table 26. Global Data Center Standby Diesel Generator Sale Price by Power (2021-2026) & (K US\$/Unit)
- Table 27. Global Data Center Standby Diesel Generator Sale by Application (2021-2026) & (Units)
- Table 28. Global Data Center Standby Diesel Generator Sale Market Share by Application (2021-2026)
- Table 29. Global Data Center Standby Diesel Generator Revenue by Application (2021-2026) & (\$ million)
- Table 30. Global Data Center Standby Diesel Generator Revenue Market Share by Application (2021-2026)
- Table 31. Global Data Center Standby Diesel Generator Sale Price by Application (2021-2026) & (K US\$/Unit)
- Table 32. Global Data Center Standby Diesel Generator Sales by Company (2021-2026) & (Units)
- Table 33. Global Data Center Standby Diesel Generator Sales Market Share by Company (2021-2026)
- Table 34. Global Data Center Standby Diesel Generator Revenue by Company (2021-2026) & (\$ millions)
- Table 35. Global Data Center Standby Diesel Generator Revenue Market Share by Company (2021-2026)
- Table 36. Global Data Center Standby Diesel Generator Sale Price by Company (2021-2026) & (K US\$/Unit)
- Table 37. Key Manufacturers Data Center Standby Diesel Generator Producing Area Distribution and Sales Area
- Table 38. Players Data Center Standby Diesel Generator Products Offered
- Table 39. Data Center Standby Diesel Generator Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 40. New Products and Potential Entrants
- Table 41. Market M&A Activity & Strategy
- Table 42. Global Data Center Standby Diesel Generator Sales by Geographic Region (2021-2026) & (Units)
- Table 43. Global Data Center Standby Diesel Generator Sales Market Share Geographic Region (2021-2026)
- Table 44. Global Data Center Standby Diesel Generator Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Data Center Standby Diesel Generator Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Data Center Standby Diesel Generator Sales by Country/Region (2021-2026) & (Units)

Table 47. Global Data Center Standby Diesel Generator Sales Market Share by Country/Region (2021-2026)

Table 48. Global Data Center Standby Diesel Generator Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Data Center Standby Diesel Generator Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Data Center Standby Diesel Generator Sales by Country (2021-2026) & (Units)

Table 51. Americas Data Center Standby Diesel Generator Sales Market Share by Country (2021-2026)

Table 52. Americas Data Center Standby Diesel Generator Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Data Center Standby Diesel Generator Sales by Type (2021-2026) & (Units)

Table 54. Americas Data Center Standby Diesel Generator Sales by Application (2021-2026) & (Units)

Table 55. APAC Data Center Standby Diesel Generator Sales by Region (2021-2026) & (Units)

Table 56. APAC Data Center Standby Diesel Generator Sales Market Share by Region (2021-2026)

Table 57. APAC Data Center Standby Diesel Generator Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Data Center Standby Diesel Generator Sales by Type (2021-2026) & (Units)

Table 59. APAC Data Center Standby Diesel Generator Sales by Application (2021-2026) & (Units)

Table 60. Europe Data Center Standby Diesel Generator Sales by Country (2021-2026) & (Units)

Table 61. Europe Data Center Standby Diesel Generator Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Data Center Standby Diesel Generator Sales by Type (2021-2026) & (Units)

Table 63. Europe Data Center Standby Diesel Generator Sales by Application (2021-2026) & (Units)

Table 64. Middle East & Africa Data Center Standby Diesel Generator Sales by Country

(2021-2026) & (Units)

Table 65. Middle East & Africa Data Center Standby Diesel Generator Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Data Center Standby Diesel Generator Sales by Type (2021-2026) & (Units)

Table 67. Middle East & Africa Data Center Standby Diesel Generator Sales by Application (2021-2026) & (Units)

Table 68. Key Market Drivers & Growth Opportunities of Data Center Standby Diesel Generator

Table 69. Key Market Challenges & Risks of Data Center Standby Diesel Generator

Table 70. Key Industry Trends of Data Center Standby Diesel Generator

Table 71. Data Center Standby Diesel Generator Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Data Center Standby Diesel Generator Distributors List

Table 74. Data Center Standby Diesel Generator Customer List

Table 75. Global Data Center Standby Diesel Generator Sales Forecast by Region (2027-2032) & (Units)

Table 76. Global Data Center Standby Diesel Generator Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas Data Center Standby Diesel Generator Sales Forecast by Country (2027-2032) & (Units)

Table 78. Americas Data Center Standby Diesel Generator Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Data Center Standby Diesel Generator Sales Forecast by Region (2027-2032) & (Units)

Table 80. APAC Data Center Standby Diesel Generator Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Data Center Standby Diesel Generator Sales Forecast by Country (2027-2032) & (Units)

Table 82. Europe Data Center Standby Diesel Generator Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Data Center Standby Diesel Generator Sales Forecast by Country (2027-2032) & (Units)

Table 84. Middle East & Africa Data Center Standby Diesel Generator Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Data Center Standby Diesel Generator Sales Forecast by Type (2027-2032) & (Units)

Table 86. Global Data Center Standby Diesel Generator Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 87. Global Data Center Standby Diesel Generator Sales Forecast by Application (2027-2032) & (Units)

Table 88. Global Data Center Standby Diesel Generator Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. Caterpillar Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors

Table 90. Caterpillar Data Center Standby Diesel Generator Product Portfolios and Specifications

Table 91. Caterpillar Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 92. Caterpillar Main Business

Table 93. Caterpillar Latest Developments

Table 94. Cummins Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors

Table 95. Cummins Data Center Standby Diesel Generator Product Portfolios and Specifications

Table 96. Cummins Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 97. Cummins Main Business

Table 98. Cummins Latest Developments

Table 99. MTU (Rolls-Royce) Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors

Table 100. MTU (Rolls-Royce) Data Center Standby Diesel Generator Product Portfolios and Specifications

Table 101. MTU (Rolls-Royce) Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 102. MTU (Rolls-Royce) Main Business

Table 103. MTU (Rolls-Royce) Latest Developments

Table 104. Mitsubishi Heavy Industries Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors

Table 105. Mitsubishi Heavy Industries Data Center Standby Diesel Generator Product Portfolios and Specifications

Table 106. Mitsubishi Heavy Industries Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 107. Mitsubishi Heavy Industries Main Business

Table 108. Mitsubishi Heavy Industries Latest Developments

Table 109. Weichai Power Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors

Table 110. Weichai Power Data Center Standby Diesel Generator Product Portfolios

and Specifications

Table 111. Weichai Power Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 112. Weichai Power Main Business

Table 113. Weichai Power Latest Developments

Table 114. Rehlko Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors

Table 115. Rehlko Data Center Standby Diesel Generator Product Portfolios and Specifications

Table 116. Rehlko Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 117. Rehlko Main Business

Table 118. Rehlko Latest Developments

Table 119. Guangxi Yuchai Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors

Table 120. Guangxi Yuchai Data Center Standby Diesel Generator Product Portfolios and Specifications

Table 121. Guangxi Yuchai Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 122. Guangxi Yuchai Main Business

Table 123. Guangxi Yuchai Latest Developments

Table 124. Wartsila Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors

Table 125. Wartsila Data Center Standby Diesel Generator Product Portfolios and Specifications

Table 126. Wartsila Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 127. Wartsila Main Business

Table 128. Wartsila Latest Developments

Table 129. Generac Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors

Table 130. Generac Data Center Standby Diesel Generator Product Portfolios and Specifications

Table 131. Generac Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 132. Generac Main Business

Table 133. Generac Latest Developments

Table 134. Tellhow Sci-Tech Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors

- Table 135. Tellhow Sci-Tech Data Center Standby Diesel Generator Product Portfolios and Specifications
- Table 136. Tellhow Sci-Tech Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
- Table 137. Tellhow Sci-Tech Main Business
- Table 138. Tellhow Sci-Tech Latest Developments
- Table 139. Shanghai Cooltech POWER Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors
- Table 140. Shanghai Cooltech POWER Data Center Standby Diesel Generator Product Portfolios and Specifications
- Table 141. Shanghai Cooltech POWER Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
- Table 142. Shanghai Cooltech POWER Main Business
- Table 143. Shanghai Cooltech POWER Latest Developments
- Table 144. Himoinisa Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors
- Table 145. Himoinisa Data Center Standby Diesel Generator Product Portfolios and Specifications
- Table 146. Himoinisa Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
- Table 147. Himoinisa Main Business
- Table 148. Himoinisa Latest Developments
- Table 149. Shanghai New Power Automotive Technology Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors
- Table 150. Shanghai New Power Automotive Technology Data Center Standby Diesel Generator Product Portfolios and Specifications
- Table 151. Shanghai New Power Automotive Technology Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
- Table 152. Shanghai New Power Automotive Technology Main Business
- Table 153. Shanghai New Power Automotive Technology Latest Developments
- Table 154. Genesal Energy Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors
- Table 155. Genesal Energy Data Center Standby Diesel Generator Product Portfolios and Specifications
- Table 156. Genesal Energy Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
- Table 157. Genesal Energy Main Business
- Table 158. Genesal Energy Latest Developments

Table 159. Power Hf Basic Information, Data Center Standby Diesel Generator Manufacturing Base, Sales Area and Its Competitors

Table 160. Power Hf Data Center Standby Diesel Generator Product Portfolios and Specifications

Table 161. Power Hf Data Center Standby Diesel Generator Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 162. Power Hf Main Business

Table 163. Power Hf Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Data Center Standby Diesel Generator
- Figure 2. Data Center Standby Diesel Generator Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Data Center Standby Diesel Generator Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Data Center Standby Diesel Generator Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Data Center Standby Diesel Generator Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Data Center Standby Diesel Generator Sales Market Share by Country/Region (2025)
- Figure 10. Data Center Standby Diesel Generator Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Figure 12. Product Picture of 12-16 Cylinders
- Figure 13. Product Picture of >16 Cylinders
- Figure 14. Global Data Center Standby Diesel Generator Sales Market Share by Type in 2026
- Figure 15. Global Data Center Standby Diesel Generator Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Cylinder Bore: Figure 17. Product Picture of Cylinder Bore: 130?170 mm
- Figure 18. Product Picture of Cylinder Bore: > 170 mm
- Figure 19. Global Data Center Standby Diesel Generator Sales Market Share by Cylinder Bore in 2026
- Figure 20. Global Data Center Standby Diesel Generator Revenue Market Share by Cylinder Bore (2021-2026)
- Figure 21. Product Picture of Power: Figure 22. Product Picture of Power: 1000KW-3000KW
- Figure 23. Product Picture of Power: > 3000KW
- Figure 24. Global Data Center Standby Diesel Generator Sales Market Share by Power in 2026
- Figure 25. Global Data Center Standby Diesel Generator Revenue Market Share by Power (2021-2026)

Figure 26. Data Center Standby Diesel Generator Consumed in Cloud Data Centers

Figure 27. Global Data Center Standby Diesel Generator Market: Cloud Data Centers (2021-2026) & (Units)

Figure 28. Data Center Standby Diesel Generator Consumed in AI Data Centers / AI Servers

Figure 29. Global Data Center Standby Diesel Generator Market: AI Data Centers / AI Servers (2021-2026) & (Units)

Figure 30. Data Center Standby Diesel Generator Consumed in High-Performance Computing (HPC)

Figure 31. Global Data Center Standby Diesel Generator Market: High-Performance Computing (HPC) (2021-2026) & (Units)

Figure 32. Data Center Standby Diesel Generator Consumed in Enterprise Data Centers

Figure 33. Global Data Center Standby Diesel Generator Market: Enterprise Data Centers (2021-2026) & (Units)

Figure 34. Data Center Standby Diesel Generator Consumed in Others

Figure 35. Global Data Center Standby Diesel Generator Market: Others (2021-2026) & (Units)

Figure 36. Global Data Center Standby Diesel Generator Sale Market Share by Application (2025)

Figure 37. Global Data Center Standby Diesel Generator Revenue Market Share by Application in 2025

Figure 38. Data Center Standby Diesel Generator Sales by Company in 2025 (Units)

Figure 39. Global Data Center Standby Diesel Generator Sales Market Share by Company in 2025

Figure 40. Data Center Standby Diesel Generator Revenue by Company in 2025 (\$ millions)

Figure 41. Global Data Center Standby Diesel Generator Revenue Market Share by Company in 2025

Figure 42. Global Data Center Standby Diesel Generator Sales Market Share by Geographic Region (2021-2026)

Figure 43. Global Data Center Standby Diesel Generator Revenue Market Share by Geographic Region in 2025

Figure 44. Americas Data Center Standby Diesel Generator Sales 2021-2026 (Units)

Figure 45. Americas Data Center Standby Diesel Generator Revenue 2021-2026 (\$ millions)

Figure 46. APAC Data Center Standby Diesel Generator Sales 2021-2026 (Units)

Figure 47. APAC Data Center Standby Diesel Generator Revenue 2021-2026 (\$ millions)

Figure 48. Europe Data Center Standby Diesel Generator Sales 2021-2026 (Units)

Figure 49. Europe Data Center Standby Diesel Generator Revenue 2021-2026 (\$ millions)

Figure 50. Middle East & Africa Data Center Standby Diesel Generator Sales 2021-2026 (Units)

Figure 51. Middle East & Africa Data Center Standby Diesel Generator Revenue 2021-2026 (\$ millions)

Figure 52. Americas Data Center Standby Diesel Generator Sales Market Share by Country in 2025

Figure 53. Americas Data Center Standby Diesel Generator Revenue Market Share by Country (2021-2026)

Figure 54. Americas Data Center Standby Diesel Generator Sales Market Share by Type (2021-2026)

Figure 55. Americas Data Center Standby Diesel Generator Sales Market Share by Application (2021-2026)

Figure 56. United States Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 57. Canada Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 58. Mexico Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 59. Brazil Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 60. APAC Data Center Standby Diesel Generator Sales Market Share by Region in 2025

Figure 61. APAC Data Center Standby Diesel Generator Revenue Market Share by Region (2021-2026)

Figure 62. APAC Data Center Standby Diesel Generator Sales Market Share by Type (2021-2026)

Figure 63. APAC Data Center Standby Diesel Generator Sales Market Share by Application (2021-2026)

Figure 64. China Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 65. Japan Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 66. South Korea Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 67. Southeast Asia Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 68. India Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 69. Australia Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 70. China Taiwan Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 71. Europe Data Center Standby Diesel Generator Sales Market Share by Country in 2025

Figure 72. Europe Data Center Standby Diesel Generator Revenue Market Share by Country (2021-2026)

Figure 73. Europe Data Center Standby Diesel Generator Sales Market Share by Type (2021-2026)

Figure 74. Europe Data Center Standby Diesel Generator Sales Market Share by Application (2021-2026)

Figure 75. Germany Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 76. France Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 77. UK Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 78. Italy Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 79. Russia Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 80. Middle East & Africa Data Center Standby Diesel Generator Sales Market Share by Country (2021-2026)

Figure 81. Middle East & Africa Data Center Standby Diesel Generator Sales Market Share by Type (2021-2026)

Figure 82. Middle East & Africa Data Center Standby Diesel Generator Sales Market Share by Application (2021-2026)

Figure 83. Egypt Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 84. South Africa Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 85. Israel Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 86. Turkey Data Center Standby Diesel Generator Revenue Growth 2021-2026 (\$ millions)

Figure 87. GCC Countries Data Center Standby Diesel Generator Revenue Growth

2021-2026 (\$ millions)

Figure 88. Manufacturing Cost Structure Analysis of Data Center Standby Diesel Generator in 2026

Figure 89. Manufacturing Process Analysis of Data Center Standby Diesel Generator

Figure 90. Industry Chain Structure of Data Center Standby Diesel Generator

Figure 91. Channels of Distribution

Figure 92. Global Data Center Standby Diesel Generator Sales Market Forecast by Region (2027-2032)

Figure 93. Global Data Center Standby Diesel Generator Revenue Market Share Forecast by Region (2027-2032)

Figure 94. Global Data Center Standby Diesel Generator Sales Market Share Forecast by Type (2027-2032)

Figure 95. Global Data Center Standby Diesel Generator Revenue Market Share Forecast by Type (2027-2032)

Figure 96. Global Data Center Standby Diesel Generator Sales Market Share Forecast by Application (2027-2032)

Figure 97. Global Data Center Standby Diesel Generator Revenue Market Share Forecast by Application (2027-2032)

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