

Global Data Center High-Voltage Generator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center High-Voltage Generator market size is expected to reach \$ 35416 million by 2032, rising at a market growth of 14.1% CAGR during the forecast period (2026-2032).

Data Center High-Voltage Generator is a high-voltage generator set specifically designed for data centers, typically providing output voltages of 6kV, 10kV, or higher. It is used as backup or primary power for large-scale cloud data centers, AI data centers, high-performance computing (HPC) facilities, and hyperscale campuses. Compared with low-voltage generators, high-voltage generators reduce current losses, lower cable and distribution system costs, and improve long-distance power transmission efficiency in high-power applications. Therefore, they are more suitable for large-capacity units and centralized power supply projects in data centers. These systems typically consist of diesel or gas engines, alternators, high-voltage switchgear, control systems, and synchronization systems. In 2025, global Data Center High-Voltage Generator production reached approximately 27,369 units, with an average global market price of around 404.7 K USD/unit. The production capacity for Data Center High-Voltage Generator in 2025 was approximately 29000 units. The typical gross profit margin for Data Center High-Voltage Generator between 20% and 40%.

This report studies the global Data Center High-Voltage Generator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center High-Voltage Generator and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Data Center High-

Voltage Generator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center High-Voltage Generator total production and demand, 2021-2032, (Units)

Global Data Center High-Voltage Generator total production value, 2021-2032, (USD Million)

Global Data Center High-Voltage Generator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Data Center High-Voltage Generator consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Data Center High-Voltage Generator domestic production, consumption, key domestic manufacturers and share

Global Data Center High-Voltage Generator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Data Center High-Voltage Generator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Data Center High-Voltage Generator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Data Center High-Voltage Generator market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Caterpillar, Kohler, Cummins, Generac, Mitsubishi Heavy Industries, MTU, Wartsila, HIMOinsa, GE Vernova, Shanghai Cooltech POWER, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Data Center High-Voltage Generator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Data Center High-Voltage Generator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center High-Voltage Generator Market, Segmentation by Type:

Bore: ? 130 mm

Bore: 130?170 mm

Bore:? 170 mm

Global Data Center High-Voltage Generator Market, Segmentation by Generator Type:

Diesel Generator

Natural Gas Generator

Global Data Center High-Voltage Generator Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Companies Profiled:

Caterpillar

Kohler

Cummins

Generac

Mitsubishi Heavy Industries

MTU

Wartsila

HIMOinsa

GE Vernova

Shanghai Cooltech POWER

Tellus Sci-Tech

Senci Electric Machinery

Weichai Power

Changchai Company

Power Hf Co., Ltd.

Key Questions Answered:

1. How big is the global Data Center High-Voltage Generator market?
2. What is the demand of the global Data Center High-Voltage Generator market?
3. What is the year over year growth of the global Data Center High-Voltage Generator market?
4. What is the production and production value of the global Data Center High-Voltage Generator market?
5. Who are the key producers in the global Data Center High-Voltage Generator market?
6. What are the growth factors driving the market demand?

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