

Global Data Center High-Voltage Generator 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 High-Voltage Generator market size was valued at US\$ 11396 million in 2025 and is forecast to a readjusted size of US\$ 35416 million by 2032 with a CAGR of 14.1% during review period.

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

Global Data Center High-Voltage Generator 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 High-Voltage Generator 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 High-Voltage Generator 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 High-Voltage Generator

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 High-Voltage Generator 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, 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.

Market Segmentation

Data Center High-Voltage Generator 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

Bore: ? 130 mm

Bore: 130?170 mm

Bore:? 170 mm

Market segment by Generator Type

Diesel Generator

Natural Gas Generator

Market segment by Application

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Major players covered

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.

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 High-Voltage Generator product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Data Center High-Voltage Generator 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 High-Voltage Generator 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 High-Voltage Generator.

Chapter 14 and 15, to describe Data Center High-Voltage Generator sales channel, distributors, customers, research findings and conclusion.

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