

Global Data Center High-Voltage Generator Market Growth 2026-2032

<https://marketpublishers.com/r/GA557FED4913EN.html>

Date: July 2026

Pages: 120

Price: US\$ 3,660.00 (Single User License)

ID: GA557FED4913EN

Abstracts

The global Data Center High-Voltage Generator market size is predicted to grow from US\$ 10834 million in 2025 to US\$ 35258 million in 2032; it is expected to grow at a CAGR of 15.0% from 2026 to 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%.

United States market for Data Center High-Voltage Generator is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Data Center High-Voltage Generator is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Data Center High-Voltage Generator is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Data Center High-Voltage Generator players cover Caterpillar, Kohler, Cummins, Generac, Mitsubishi Heavy Industries, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Data Center High-Voltage Generator Industry Forecast" looks at past sales and reviews total world Data Center High-Voltage Generator sales in 2025, providing a comprehensive analysis by region and market sector of projected Data Center High-Voltage Generator sales for 2026 through 2032. With Data Center High-Voltage 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 High-Voltage Generator industry.

This Insight Report provides a comprehensive analysis of the global Data Center High-Voltage 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 High-Voltage 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 High-Voltage Generator market.

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

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

Segmentation by Type:

Bore: ? 130 mm

Bore: 130?170 mm

Bore:? 170 mm

Segmentation by Generator Type:

Diesel Generator

Natural Gas Generator

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

Kohler

Cummins

Generac

Mitsubishi Heavy Industries

MTU

Wartsila

HIMOinsa

GE Vernova

Shanghai Cooltech POWER

Tellhow Sci-Tech

Senci Electric Machinery

Weichai Power

Changchai Company

Power Hf Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Center High-Voltage Generator market?

What factors are driving Data Center High-Voltage Generator market growth, globally and by region?

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

How do Data Center High-Voltage Generator market opportunities vary by end market size?

How does Data Center High-Voltage Generator break out by Type, by Application?

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