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Global Data Center High-Voltage DC Power Supply System Market Growth 2026-2032

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Abstracts

The global Data Center High-Voltage DC Power Supply System market size is predicted to grow from US$ 309 million in 2025 to US$ 662 million in 2032; it is expected to grow at a CAGR of 11.1% from 2026 to 2032.

A Data Center High-Voltage DC Power Supply System is a centralized power architecture that uses relatively high direct-current voltage to supply servers, storage systems, networking equipment, and other data center infrastructure. The system typically consists of high-voltage AC input equipment, rectifiers, DC busbars, energy storage units, DC distribution equipment, power conversion modules, and intelligent monitoring systems. By reducing multiple AC-to-DC and DC-to-AC conversion stages, the system improves overall power efficiency and enables direct integration with battery energy storage, renewable energy sources, and rack-level DC power architectures. Compared with conventional AC UPS systems, high-voltage DC power supply systems generally offer fewer conversion stages, lower energy losses, simplified system architecture, higher reliability, and improved modular scalability, making them suitable for cloud data centers, AI data centers, high-performance computing facilities, and large internet data centers. Data center high-voltage DC power supply systems are generally customized and priced per system. A typical system is estimated to cost approximately USD 75,000–450,000 per unit, while large MW-scale systems may cost approximately USD 300,000–900,000 per unit or more. Pricing mainly depends on system capacity, output voltage, redundancy level, number of rectifier modules, and whether battery backup, DC distribution cabinets, intelligent monitoring, and an 800V DC bus are included. Higher-capacity and more highly integrated systems generally command higher prices.

The global market for data center high-voltage DC power supply systems is being

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driven by the expansion of AI computing infrastructure, increasing server rack power density, stricter energy-efficiency and carbon-reduction requirements, and the growing deployment of battery energy storage systems. As GPU server clusters and high-performance computing equipment require increasingly continuous, stable, and efficient power delivery, conventional low-voltage AC architectures face greater challenges related to conversion efficiency, cabling costs, and high-power transmission capacity. High-voltage DC architecture is therefore emerging as an important direction for next-generation data center power infrastructure. Current demand is primarily concentrated in hyperscale data centers, AI computing centers, telecommunications data centers, and large colocation facilities. As 800V-class DC bus systems, DC distribution equipment, solid-state transformers, energy storage systems, and rack-level power modules continue to mature, the market is expected to evolve toward higher voltage levels, greater power density, modular deployment, intelligent control, and integrated power-source, grid, load, and storage architectures.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Data Center High-Voltage DC Power Supply System 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 DC Power Supply System 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 DC Power Supply System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Data Center High-Voltage DC Power Supply System 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

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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 DC Power Supply System.

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

Segmentation by Type:

Single-Bus Architecture

Dual-Bus Architecture

Multi-Bus Redundant Architecture

Segmentation by In-Rack Voltage Conversion Path:

800V-to-48V Architecture

800V-to-12V Architecture

Others

Segmentation by Application:

AI Data Center

High-Performance Computing (HPC)

Cloud Computing and Enterprise Data Center

Others

This report also splits the market by region:

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Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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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.

Vertiv

Eaton

Schneider Electric

Siemens

ABB

Hitachi Energy

GE Vernova

Mitsubishi Electric

Delta Electronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Center High-Voltage DC Power Supply System market?

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What factors are driving Data Center High-Voltage DC Power Supply System market growth, globally and by region?

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

How do Data Center High-Voltage DC Power Supply System market opportunities vary by end market size?

How does Data Center High-Voltage DC Power Supply System break out by Type, by Application?

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