

Global Data Center High-Voltage DC Power Supply System 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 DC Power Supply System market size was valued at US\$ 325 million in 2025 and is forecast to a readjusted size of US\$ 672 million by 2032 with a CAGR of 10.5% during review period.

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 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

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

Global Data Center High-Voltage DC Power Supply System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Data Center High-Voltage DC Power Supply System market size and forecasts,

by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Data Center High-Voltage DC Power Supply System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (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 DC Power Supply System

- 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 DC Power Supply System 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 Vertiv, Eaton, Schneider Electric, Siemens, ABB, Hitachi Energy, GE Vernova, Mitsubishi Electric, Delta Electronics, etc.

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

Market Segmentation

Data Center High-Voltage DC Power Supply System 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

Single-Bus Architecture

Dual-Bus Architecture

Multi-Bus Redundant Architecture

Market segment by In-Rack Voltage Conversion Path

800V-to-48V Architecture

800V-to-12V Architecture

Others

Market segment by Application

AI Data Center

High-Performance Computing (HPC)

Cloud Computing and Enterprise Data Center

Others

Major players covered

Vertiv

Eaton

Schneider Electric

Siemens

ABB

Hitachi Energy

GE Vernova

Mitsubishi Electric

Delta Electronics

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)

Chapter Outline

Chapter 1, to describe Data Center High-Voltage DC Power Supply System product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Data Center High-Voltage DC Power Supply System 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 DC Power Supply System 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 DC Power Supply System 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 DC Power Supply System.

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

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