

Global Data Center High-Voltage Direct Current Power 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 Direct Current Power System market size was valued at US\$ 1669 million in 2025 and is forecast to a readjusted size of US\$ 17556 million by 2032 with a CAGR of 46.9% during review period.

In 2025, the global output of Data Center HVDC Power Supply Equipment reached 12.11 GW, with a domestic unit price of approximately US\$42.85/kW and an international unit price of approximately US\$225/kW, resulting in an average price of US\$133.93/kW. Gross profit margin remained stable at 24.60%-32%, and downstream customers included Meta, Microsoft, Google, Amazon, Alibaba, Tencent, Kuaishou, and 21Vianet. Data Center HVDC Power Supply Equipment mainly consists of an AC power distribution unit, rectifier module, battery, DC power distribution unit, battery management unit, insulation monitoring unit, and monitoring module. It rectifies AC power into DC power, which is then distributed to power IT equipment. When the mains power is normal, the rectifier module converts AC power into high-voltage DC power to supply IT equipment and charge the battery; when the mains power is abnormal, the battery continues to power the IT equipment. The HVDC system reduces the AC/DC conversion stage, typically requiring only one AC/DC conversion, while traditional UPS systems require two conversions: AC/DC and DC/AC. Therefore, HVDC operates more efficiently. The HVDC system also offers higher stability and reliability, reducing potential points of failure. In terms of power supply, HVDC uses a DC +/- bus, eliminating the zero-to-ground voltage issue for IT equipment. The construction and operating costs of HVDC power systems are relatively low, saving 20%-40% on construction investment and 10%-20% on operating costs. Furthermore, HVDC power supplies have a high degree of integration, saving 60-80% of floor space, allowing data

centers to deploy more servers or secure redundant space.

Against the backdrop of accelerated expansion of AI computing power and continuously increasing energy efficiency requirements in data centers, power supply and distribution systems are evolving from traditional UPS architectures to higher-efficiency, higher-density, and higher-reliability high-voltage direct current (HVDC) technology. HVDC power supply equipment for data centers offers significant advantages in improving power supply efficiency, optimizing data center space, and reducing operational complexity by reducing energy conversion stages, lowering system losses and potential failure points. With the accelerated construction of intelligent computing centers, high-density server racks, and large-scale cloud computing infrastructure, HVDC is gradually extending from communication equipment rooms and traditional data center scenarios to the core power supply architecture of AI data centers.

In the future, the focus of competition in data center power systems will no longer be solely on the efficiency of individual devices, but will revolve around overall system architecture, modular deployment, intelligent monitoring, DC power distribution safety, and full lifecycle energy management. Companies with capabilities in high-power-density rectifier modules, DC power distribution protection, energy storage collaboration, insulation monitoring, and system-level integration will occupy a more important position in the next generation of data center power supply systems. With the accelerated application of high-voltage DC architectures such as 400V and 800V, HVDC is expected to become an important technological path to support the greening, high-density, and low-cost operation of AI computing infrastructure.

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

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

Global Data Center High-Voltage Direct Current Power System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Data Center High-Voltage Direct Current Power System market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 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 Direct Current Power 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 Direct Current Power 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 ABB, Siemens, Eaton, Schneider Electric, Kehua Data Co., Ltd., Hangzhou Zhongheng Electric Co., Ltd., ZTE, KSTAR, Shijiazhuang Tonhe Electronics Technologies Co., Ltd., 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 Direct Current Power 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

240V

336V

400V

800V

Market segment by Shape

Discrete Power Supply System

Combined Power Supply System

Market segment by Output Current

800A

1200A

1600A

2400A

Market segment by Application

Cloud And Internet Data Centers

Telecom Operator Data Centers

Enterprise Data Centers

Edge Data Centers

Others

Major players covered

ABB

Siemens

Eaton

Schneider Electric

Kehua Data Co., Ltd.

Hangzhou Zhongheng Electric Co., Ltd.

ZTE

KSTAR

Shijiazhuang Tonhe Electronics Technologies Co., Ltd.

Delta Electronics

Vertiv

Beijing Dynamic Power Co., Ltd.

Shenzhen Winline Technology Co., Ltd.

Lite-On

Shenzhen Megmeet Electrical Co., Ltd.

Shenzhen Hopewind Electric 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 Direct Current Power System product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Data Center High-Voltage Direct Current Power 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 Direct Current Power 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 Direct Current Power 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 Direct Current Power System.

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

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