

Global Data Center HVDC Power Supply Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center HVDC Power Supply Equipment market size is expected to reach \$ 17556 million by 2032, rising at a market growth of 46.9% CAGR during the forecast period (2026-2032).

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 studies the global Data Center HVDC Power Supply Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center HVDC Power Supply Equipment and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Data Center HVDC Power Supply Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center HVDC Power Supply Equipment total production and demand, 2021-2032, (GW)

Global Data Center HVDC Power Supply Equipment total production value, 2021-2032,

(USD Million)

Global Data Center HVDC Power Supply Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (GW), (based on production site)

Global Data Center HVDC Power Supply Equipment consumption by region & country, CAGR, 2021-2032 & (GW)

U.S. VS China: Data Center HVDC Power Supply Equipment domestic production, consumption, key domestic manufacturers and share

Global Data Center HVDC Power Supply Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (GW)

Global Data Center HVDC Power Supply Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (GW)

Global Data Center HVDC Power Supply Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (GW)

This report profiles key players in the global Data Center HVDC Power Supply Equipment market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Data Center HVDC Power Supply Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (GW) and average price (US\$/KW) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Data Center HVDC Power Supply Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center HVDC Power Supply Equipment Market, Segmentation by Type:

240V

336V

400V

800V

Global Data Center HVDC Power Supply Equipment Market, Segmentation by Shape:

Discrete Power Supply System

Combined Power Supply System

Global Data Center HVDC Power Supply Equipment Market, Segmentation by Output Current:

800A

1200A

1600A

2400A

Global Data Center HVDC Power Supply Equipment Market, Segmentation by Application:

Cloud And Internet Data Centers

Telecom Data Centers

Enterprise Data Centers

Modular And Edge Data Centers

Others

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global Data Center HVDC Power Supply Equipment market?
2. What is the demand of the global Data Center HVDC Power Supply Equipment market?
3. What is the year over year growth of the global Data Center HVDC Power Supply Equipment market?
4. What is the production and production value of the global Data Center HVDC Power Supply Equipment market?
5. Who are the key producers in the global Data Center HVDC Power Supply Equipment market?
6. What are the growth factors driving the market demand?

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