

Global Data Center High-Voltage DC Power Supply System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center High-Voltage DC Power Supply System market size is expected to reach \$ 672 million by 2032, rising at a market growth of 10.5% CAGR during the forecast period (2026-2032).

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 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 studies the global Data Center High-Voltage DC Power Supply System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center High-Voltage DC Power Supply System 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 High-Voltage DC Power Supply System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center High-Voltage DC Power Supply System total production and demand, 2021-2032, (Units)

Global Data Center High-Voltage DC Power Supply System total production value, 2021-2032, (USD Million)

Global Data Center High-Voltage DC Power Supply System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Data Center High-Voltage DC Power Supply System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Data Center High-Voltage DC Power Supply System domestic production, consumption, key domestic manufacturers and share

Global Data Center High-Voltage DC Power Supply System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Data Center High-Voltage DC Power Supply System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Data Center High-Voltage DC Power Supply System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Data Center High-Voltage DC Power Supply System 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Data Center High-Voltage DC Power Supply System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) 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 High-Voltage DC Power Supply System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center High-Voltage DC Power Supply System Market, Segmentation by Type:

Single-Bus Architecture

Dual-Bus Architecture

Multi-Bus Redundant Architecture

Global Data Center High-Voltage DC Power Supply System Market, Segmentation by In-Rack Voltage Conversion Path:

800V-to-48V Architecture

800V-to-12V Architecture

Others

Global Data Center High-Voltage DC Power Supply System Market, Segmentation by Application:

AI Data Center

High-Performance Computing (HPC)

Cloud Computing and Enterprise Data Center

Others

Companies Profiled:

Vertiv

Eaton

Schneider Electric

Siemens

ABB

Hitachi Energy

GE Vernova

Mitsubishi Electric

Delta Electronics

Key Questions Answered:

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

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