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Global HVDC Power Modules for Data Centers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global HVDC Power Modules for Data Centers market size is expected to reach $ 864 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

HVDC Power Modules for Data Centers are high-voltage DC rectifier modules, DC power shelves, DC/DC converters and power distribution modules used in 240 VDC, 380/400 VDC or emerging 800 VDC data-center power architectures. Their role is to reduce AC/DC conversion stages, improve power density, lower copper losses and support high-density AI racks that increasingly require more efficient power delivery than traditional low-voltage AC distribution. In 2025, Global HVDC Power Modules for Data Centers sales are estimated at about 14 GW, with an average ex-works price of about 35 US$/kW. The value chain runs from power semiconductors, controllers, magnetics, capacitors, connectors and busbars to HVDC rectifier modules, power shelves, DC distribution units, server rack integrators, data-center infrastructure vendors and hyperscale AI data-center operators.

The main driver is the rapid rise of AI racks with power densities far above traditional cloud racks, which makes conventional AC distribution and low-voltage conversion less efficient and harder to scale. HVDC modules benefit from the industry shift toward 400 VDC and 800 VDC architectures, higher rack-level power density, liquid-cooled AI servers and the need to reduce conversion losses from grid entry to GPU power rails.

This report studies the global HVDC Power Modules for Data Centers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for HVDC

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Power Modules for Data Centers 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 HVDC Power Modules for Data Centers that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global HVDC Power Modules for Data Centers total production and demand, 2021-2032, (GW)
Global HVDC Power Modules for Data Centers total production value, 2021-2032, (USD Million)
Global HVDC Power Modules for Data Centers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (GW), (based on production site)
Global HVDC Power Modules for Data Centers consumption by region & country, CAGR, 2021-2032 & (GW)
U.S. VS China: HVDC Power Modules for Data Centers domestic production, consumption, key domestic manufacturers and share
Global HVDC Power Modules for Data Centers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (GW)
Global HVDC Power Modules for Data Centers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (GW)
Global HVDC Power Modules for Data Centers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (GW)

This report profiles key players in the global HVDC Power Modules for Data Centers 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, Huawei Digital Power, Advanced Energy, Delta Electronics, Lite-On Technology, AcBel Polytech, Chicony Power, Murata Manufacturing, TDK-Lambda, Vicor, 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 HVDC Power Modules for Data Centers market

Detailed Segmentation:

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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 HVDC Power Modules for Data Centers Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global HVDC Power Modules for Data Centers Market, Segmentation by Type:

- 240 VDC
- 380/400 VDC
- 800 VDC

Global HVDC Power Modules for Data Centers Market, Segmentation by Module Function:

- AC/DC Rectifier Module

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DC/DC Converter Module

Power Shelf And Distribution Module

Global HVDC Power Modules for Data Centers Market, Segmentation by Cooling Method:

Air-Cooled Module

Liquid Module

Global HVDC Power Modules for Data Centers Market, Segmentation by Application:

AI Data Centers

Telecom And Edge Data Centers

Others

Companies Profiled:

Vertiv

Huawei Digital Power

Advanced Energy

Delta Electronics

Lite-On Technology

AcBel Polytech

Chicony Power

Murata Manufacturing

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TDK-Lambda

Vicor

Flex Power Modules

Bel Power Solutions

FSP Group

Compuware Technology

Infineon Technologies

Key Questions Answered:
1. How big is the global HVDC Power Modules for Data Centers market?
2. What is the demand of the global HVDC Power Modules for Data Centers market?
3. What is the year over year growth of the global HVDC Power Modules for Data Centers market?
4. What is the production and production value of the global HVDC Power Modules for Data Centers market?
5. Who are the key producers in the global HVDC Power Modules for Data Centers market?
6. What are the growth factors driving the market demand?

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