

Global High-Frequency Transformer for Solid-State Transformer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-Frequency Transformer for Solid-State Transformer market size is expected to reach \$ 232 million by 2032, rising at a market growth of 25.4% CAGR during the forecast period (2026-2032).

High-Frequency Transformer for Solid-State Transformer is a critical magnetic component designed for high-frequency power conversion systems, enabling efficient voltage transformation, reduced energy loss, and compact system integration under high switching frequencies, making it essential for next-generation solid-state transformer architectures. Its advantages include high power density, low core loss, superior thermal performance, fast dynamic response, and strong adaptability to high-frequency SiC-based power systems. In 2025, production was 1,098 units and the average price was USD 41,000 per unit. The industry's capacity utilization rate in 2025 was about 60% and the average gross margin was around 40%. Upstream, key raw materials include magnetic cores and copper wires, with representative suppliers such as TDK, VAC, Hitachi Metals, Southwire, Prysmian, and Sanhuan Magnet Group providing essential materials. The midstream segment focuses on electromagnetic design optimization, winding structure engineering, insulation system design, thermal management, and high-frequency performance validation, which determine efficiency, reliability, and miniaturization capability. Downstream, High-Frequency Transformer for Solid-State Transformer is mainly applied in data centers, with representative customers including Google, Microsoft, Amazon Web Services, Meta, Alibaba Cloud, Tencent Cloud, and IBM.

High-frequency transformers serve as the magnetic core of solid-state transformers (SST), playing a pivotal role in next-generation power distribution. Driven by the surging

demand for AI data centers, they enable extreme power density and efficiency by operating at high frequencies with advanced nanocrystalline cores. While SST adoption is currently constrained by high semiconductor costs, the commercialization of high-frequency transformers is accelerating alongside the maturation of wide-bandgap devices. Their growth trajectory is intrinsically tied to the broader evolution of intelligent, high-voltage DC power architectures.

This report studies the global High-Frequency Transformer for Solid-State Transformer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-Frequency Transformer for Solid-State Transformer 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 High-Frequency Transformer for Solid-State Transformer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-Frequency Transformer for Solid-State Transformer total production and demand, 2021-2032, (Units)

Global High-Frequency Transformer for Solid-State Transformer total production value, 2021-2032, (USD Million)

Global High-Frequency Transformer for Solid-State Transformer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global High-Frequency Transformer for Solid-State Transformer consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: High-Frequency Transformer for Solid-State Transformer domestic production, consumption, key domestic manufacturers and share

Global High-Frequency Transformer for Solid-State Transformer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global High-Frequency Transformer for Solid-State Transformer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global High-Frequency Transformer for Solid-State Transformer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global High-Frequency Transformer for Solid-State Transformer 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 Hitachi Energy?Japan?, ABB?Switzerland?, Siemens Energy?Germany?, GE Vernova?USA?, Mitsubishi Electric?Japan?, Schneider Electric?France?, Eaton?Ireland?, Delta Electronics?Taiwan?, China XD Electric (China), Premo Group?Spain?, 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 High-Frequency Transformer for Solid-State Transformer 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 High-Frequency Transformer for Solid-State Transformer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-Frequency Transformer for Solid-State Transformer Market, Segmentation by Type:

?20kHz

20-200kHz

Others

Global High-Frequency Transformer for Solid-State Transformer Market, Segmentation by Core Material:

MnZn Ferrite

NiZn Ferrite

Nanocrystalline Alloy

Others

Global High-Frequency Transformer for Solid-State Transformer Market, Segmentation by Cooling Method:

Natural Air Cooling

Forced Air Cooling

Liquid Cooling

Others

Global High-Frequency Transformer for Solid-State Transformer Market, Segmentation by Application:

AI Data Center

Cloud Computing Data Center

HPC Center

Others

Companies Profiled:

Hitachi Energy?Japan?

ABB?Switzerland?

Siemens Energy?Germany?

GE Vernova?USA?

Mitsubishi Electric?Japan?

Schneider Electric?France?

Eaton?Ireland?

Delta Electronics?Taiwan?

China XD Electric (China)

Premo Group?Spain?

Key Questions Answered:

1. How big is the global High-Frequency Transformer for Solid-State Transformer market?
2. What is the demand of the global High-Frequency Transformer for Solid-State Transformer market?
3. What is the year over year growth of the global High-Frequency Transformer for Solid-State Transformer market?
4. What is the production and production value of the global High-Frequency Transformer for Solid-State Transformer market?

5. Who are the key producers in the global High-Frequency Transformer for Solid-State Transformer market?
6. What are the growth factors driving the market demand?

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