

Global High-Frequency Transformer for Solid-State Transformer 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 High-Frequency Transformer for Solid-State Transformer market size was valued at US\$ 46.30 million in 2025 and is forecast to a readjusted size of US\$ 232 million by 2032 with a CAGR of 25.4% during review period.

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 is a detailed and comprehensive analysis for global High-Frequency Transformer for Solid-State Transformer 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 High-Frequency Transformer for Solid-State Transformer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global High-Frequency Transformer for Solid-State Transformer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global High-Frequency Transformer for Solid-State Transformer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global High-Frequency Transformer for Solid-State Transformer market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 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 High-Frequency Transformer for Solid-State Transformer

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 High-Frequency Transformer for Solid-State Transformer 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 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.

Market Segmentation

High-Frequency Transformer for Solid-State Transformer 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

?20kHz

20-200kHz

Others

Market segment by Core Material

MnZn Ferrite

NiZn Ferrite

Nanocrystalline Alloy

Others

Market segment by Cooling Method

Natural Air Cooling

Forced Air Cooling

Liquid Cooling

Others

Market segment by Application

AI Data Center

Cloud Computing Data Center

HPC Center

Others

Major players covered

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?

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 High-Frequency Transformer for Solid-State Transformer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-Frequency Transformer for Solid-State Transformer, with price, sales quantity, revenue, and global market share of High-Frequency Transformer for Solid-State Transformer from 2021 to 2026.

Chapter 3, the High-Frequency Transformer for Solid-State Transformer competitive situation, sales quantity, revenue, and global market share of top manufacturers are

analyzed emphatically by landscape contrast.

Chapter 4, the High-Frequency Transformer for Solid-State Transformer 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 High-Frequency Transformer for Solid-State Transformer 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 High-Frequency Transformer for Solid-State Transformer.

Chapter 14 and 15, to describe High-Frequency Transformer for Solid-State Transformer sales channel, distributors, customers, research findings and conclusion.

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