

Global High-Frequency Transformer for Solid-State Transformer Market Growth 2026-2032

<https://marketpublishers.com/r/G35E73DD968EEN.html>

Date: July 2026

Pages: 90

Price: US\$ 3,660.00 (Single User License)

ID: G35E73DD968EEN

Abstracts

The global High-Frequency Transformer for Solid-State Transformer market size is predicted to grow from US\$ 44.02 million in 2025 to US\$ 238 million in 2032; it is expected to grow at a CAGR of 27.0% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "High-Frequency Transformer for Solid-State Transformer Industry Forecast" looks at past sales and reviews total world High-Frequency Transformer for Solid-State Transformer sales in 2025, providing a comprehensive analysis by region and market sector of projected High-Frequency Transformer for Solid-State Transformer sales for 2026 through 2032. With High-Frequency Transformer for Solid-State Transformer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High-Frequency Transformer for Solid-State Transformer industry.

This Insight Report provides a comprehensive analysis of the global High-Frequency Transformer for Solid-State Transformer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High-Frequency Transformer for Solid-State Transformer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-Frequency Transformer for Solid-State Transformer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-Frequency Transformer for Solid-State Transformer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High-Frequency Transformer for Solid-State Transformer.

This report presents a comprehensive overview, market shares, and growth opportunities of High-Frequency Transformer for Solid-State Transformer market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

• 20kHz

20-200kHz

Others

Segmentation by Core Material:

MnZn Ferrite

NiZn Ferrite

Nanocrystalline Alloy

Others

Segmentation by Cooling Method:

Natural Air Cooling

Forced Air Cooling

Liquid Cooling

Others

Segmentation by Application:

AI Data Center

Cloud Computing Data Center

HPC Center

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global High-Frequency Transformer for Solid-State

Transformer market?

What factors are driving High-Frequency Transformer for Solid-State Transformer market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High-Frequency Transformer for Solid-State Transformer market opportunities vary by end market size?

How does High-Frequency Transformer for Solid-State Transformer break out by Type, by Application?

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