

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

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Abstracts

The global GaN High-Frequency Transformer for Solid-State Transformer market size is predicted to grow from US\$ 6.65 million in 2025 to US\$ 85.87 million in 2032; it is expected to grow at a CAGR of 44.6% from 2026 to 2032.

GaN High-Frequency Transformer for Solid-State Transformer is an advanced magnetic component designed for gallium nitride based solid-state transformer systems, enabling ultra-high-frequency power conversion, efficient voltage transformation, and compact energy system integration for next-generation data center and grid applications. By leveraging GaN semiconductor driven high switching frequency characteristics, it significantly reduces switching losses, improves electromagnetic efficiency, and enhances thermal management performance compared with conventional silicon based transformer systems, making it suitable for high power density and high efficiency power architectures. Its advantages include ultra-low switching loss, high frequency operation capability, excellent thermal performance, high power density, and strong compatibility with GaN based power electronic systems. In 2025, production was 162 units and the average price was USD 42,000 per unit. The industry's capacity utilization rate in 2025 was about 58% and the average gross margin was around 45%. 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 high frequency electromagnetic design, GaN adaptive winding structure engineering, insulation system optimization, thermal management, and high frequency performance validation, which determine conversion efficiency, stability, and system scalability. Downstream, GaN 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.

GaN-based high-frequency transformers are emerging as a key enabler for next-generation Solid-State Transformers (SST). Leveraging GaN devices' lower gate charge, smaller output capacitance, and ultra-short switching times, they operate at MHz-level frequencies. This significantly compresses the transformer's magnetic core volume and reduces winding losses, delivering unparalleled power density for space-constrained environments like AI data centers. While SiC currently dominates high-voltage scenarios, GaN transformers offer a distinct advantage in extreme high-frequency DC-DC conversion.

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

This Insight Report provides a comprehensive analysis of the global GaN 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 GaN 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 GaN 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 GaN 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 GaN High-Frequency Transformer for Solid-State Transformer.

This report presents a comprehensive overview, market shares, and growth

opportunities of GaN 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 GaN High-Frequency Transformer for Solid-State Transformer market?

What factors are driving GaN 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 GaN High-Frequency Transformer for Solid-State Transformer market opportunities vary by end market size?

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

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