

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

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Abstracts

The global GaN High-Frequency Transformer for Solid-State Transformer market size is expected to reach \$ 80.95 million by 2032, rising at a market growth of 42.0% CAGR during the forecast period (2026-2032).

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.

This report studies the global GaN 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 GaN 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 GaN High-Frequency Transformer for Solid-State Transformer that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

Global GaN 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 GaN 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 GaN 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 GaN High-Frequency Transformer for Solid-State Transformer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

?20kHz

20-200kHz

Others

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

MnZn Ferrite

NiZn Ferrite

Nanocrystalline Alloy

Others

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

Natural Air Cooling

Forced Air Cooling

Liquid Cooling

Others

Global GaN 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 GaN High-Frequency Transformer for Solid-State Transformer market?
2. What is the demand of the global GaN High-Frequency Transformer for Solid-State

Transformer market?

3. What is the year over year growth of the global GaN High-Frequency Transformer for Solid-State Transformer market?
4. What is the production and production value of the global GaN High-Frequency Transformer for Solid-State Transformer market?
5. Who are the key producers in the global GaN High-Frequency Transformer for Solid-State Transformer market?
6. What are the growth factors driving the market demand?

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