

Global Solid-State Transformer (SST) for AI Data Center Market Growth 2026-2032

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Abstracts

The global Solid-State Transformer (SST) for AI Data Center market size is predicted to grow from US\$ 1666 million in 2025 to US\$ 4652 million in 2032; it is expected to grow at a CAGR of 15.9% from 2026 to 2032.

Solid-State Transformer (SST) for AI Data Center is a next-generation power conversion system specifically engineered for artificial intelligence computing infrastructures, enabling high-frequency, digitally controlled voltage transformation and intelligent power distribution to support ultra-large-scale AI workloads with high efficiency, stability, and rapid dynamic response. Compared with conventional transformers, it adopts a power electronics-based architecture to enhance real-time load balancing, grid adaptability, and system scalability, while significantly improving energy efficiency and operational reliability in high-density AI computing environments. Its key advantages include high power density, fast and precise voltage regulation, bidirectional energy flow capability, and strong compatibility with renewable energy integration and direct current power architectures. In 2025, production was approximately 2,003 units and the average price was USD 850,000 per unit. The industry's capacity utilization rate in 2025 was about 70% and the average gross margin was around 30%. Upstream, the key inputs include silicon carbide power semiconductor devices and high-frequency nanocrystalline magnetic materials, with representative suppliers such as Wolfspeed, Infineon Technologies, ROHM Semiconductor, Hitachi Metals, and VAC providing critical enabling technologies and materials. The midstream segment focuses on system architecture design, high-frequency power conversion topology development, thermal and electromagnetic management, control algorithm design, system integration, and reliability validation, which determine conversion efficiency, stability, and grid adaptability. The downstream mainly targets AI-driven computing infrastructures, including containerized and building-based computing centers, with representative

clients including NVIDIA, Google, Microsoft, Amazon Web Services, Meta, Alibaba Cloud, and Tencent Cloud.

United States market for Solid-State Transformer (SST) for AI Data Center is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Solid-State Transformer (SST) for AI Data Center is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Solid-State Transformer (SST) for AI Data Center is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Solid-State Transformer (SST) for AI Data Center players cover ABB (Switzerland), Siemens (Germany), GE (United States), Eaton (Ireland), Vertiv (United States), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Solid-State Transformer (SST) for AI Data Center 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 Solid-State Transformer (SST) for AI Data Center portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solid-State Transformer (SST) for AI Data Center market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Solid-State Transformer (SST) for AI Data Center 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 Solid-State Transformer (SST) for AI Data Center.

This report presents a comprehensive overview, market shares, and growth opportunities of Solid-State Transformer (SST) for AI Data Center market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

10-35kV

35-110kV

?110kV

Segmentation by Topology Architecture:

Three-Stage Topology

Two-Stage Topology

Segmentation by Port Configuration:

DC Solid-State Transformer

AC Solid-State Transformer

Others

Segmentation by Application:

Containerized Data Center

Building Data 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.

ABB (Switzerland)

Siemens (Germany)

GE (United States)

Eaton (Ireland)

Vertiv (United States)

WindSun Science & Technology (China)

Beijing Sifang Automation (China)

Eaglerise Electric & Electronic (China)

Delta Electronics (Taiwan)

China XD Electric (China)

Hainan Jinpan Smart Technology (China)

Hitachi (Japan)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Solid-State Transformer (SST) for AI Data Center market?

What factors are driving Solid-State Transformer (SST) for AI Data Center market growth, globally and by region?

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

How do Solid-State Transformer (SST) for AI Data Center market opportunities vary by end market size?

How does Solid-State Transformer (SST) for AI Data Center break out by Type, by Application?

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