

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

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Abstracts

The global Data Center Solid State Transformer (SST) market size is predicted to grow from US\$ 34.73 million in 2025 to US\$ 726 million in 2032; it is expected to grow at a CAGR of 32.4% from 2026 to 2032.

A Data Center Solid State Transformer (SST) is an advanced power conversion device that replaces traditional electromagnetic transformers to provide more efficient, compact, and intelligent power distribution for modern data centers. Using high-frequency power electronics?such as SiC/GaN devices?an SST enables precise voltage regulation, bidirectional power flow, real-time monitoring, and integration with renewable energy and energy storage systems. It improves power quality, reduces energy loss, and supports high-density AI computing loads, making it a key technology for next-generation data center power infrastructure. In 2025, global Data Center Solid State Transformer (SST) production reached approximately 46.6MW with an average global market price of around 762 USD/KW. The production capacity for Data Center Solid State Transformer (SST) in 2025 was approximately 50MW. The typical gross profit margin for Data Center Solid State Transformer (SST) is between 20% and 40%. The Data Center Solid State Transformer (SST) market is growing rapidly, driven by the expansion of AI data centers, the shift toward high-efficiency power distribution, and the adoption of wide-bandgap semiconductor technologies such as SiC and GaN. SSTs offer high-frequency switching, bidirectional power flow, compact size, and seamless integration with renewable energy and DC power architectures, making them ideal for next-generation hyperscale and edge data centers. Although still in an early commercialization stage, increasing investments from cloud providers and power equipment manufacturers are accelerating pilot deployments, with opportunities emerging in AI computing clusters, high-density rack power systems, and green energy-enabled data centers.

The Data Center Solid State Transformer (SST) market is driven by the rapid growth of AI computing, hyperscale data centers, and the transition toward high-efficiency, flexible power distribution architectures. SSTs replace traditional magnetic transformers with power electronic conversion systems, enabling higher power density, fast dynamic control, multi-port AC/DC interfaces, and native DC output for modern data center power systems. The market is supported by increasing demand for hybrid AC/DC distribution, integration of renewable energy and battery storage, and the development of microgrids, with key growth regions including North America, Asia-Pacific, and Europe. Industry trends focus on multi-port SST designs, wide-bandgap semiconductors (SiC/GaN), and deployment in next-generation 380V DC and medium-voltage data center infrastructures.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Data Center Solid State Transformer (SST) 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 Data Center Solid State Transformer (SST).

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

Segmentation by Type:

Single-port SST

Multi-port SST

Segmentation by Voltage Input Method:

AC-DC

DC-DC

Segmentation by Semiconductor Devices:

IGBT SST

SiC MOSFET SST

Segmentation by Application:

Enterprise Data Centers

Housing and Service Provider Data Centers

Hyperscale Data Centers

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.

Eaton

Delta

Amperesand

SolarEdge

Vertiv

TBEA

China XD Electric

JST Power Equipment

Newonder Special Electric

TGOOD Electric

Sifang Automation

Kehua

Schneider Electric

Kerun Intelligent Control

Eaglerise

WG Energy

Key Questions Addressed in this Report

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

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

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

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

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

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