

Global Data Center Solid State Transformer (SST) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center Solid State Transformer (SST) market size is expected to reach \$ 700 million by 2032, rising at a market growth of 30.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global Data Center Solid State Transformer (SST) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Solid State Transformer (SST) 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 Data Center Solid State Transformer (SST) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center Solid State Transformer (SST) total production and demand, 2021-2032, (MW)

Global Data Center Solid State Transformer (SST) total production value, 2021-2032, (USD Million)

Global Data Center Solid State Transformer (SST) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global Data Center Solid State Transformer (SST) consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: Data Center Solid State Transformer (SST) domestic production, consumption, key domestic manufacturers and share

Global Data Center Solid State Transformer (SST) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global Data Center Solid State Transformer (SST) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global Data Center Solid State Transformer (SST) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Data Center Solid State Transformer (SST) 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 Eaton, Delta, Amperesand,

SolarEdge, Vertiv, TBEA, China XD Electric, JST Power Equipment, Newonder Special Electric, TGOOD Electric, 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 Data Center Solid State Transformer (SST) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (US\$/KW) 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 Data Center Solid State Transformer (SST) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Solid State Transformer (SST) Market, Segmentation by Type:

Single-port SST

Multi-port SST

Global Data Center Solid State Transformer (SST) Market, Segmentation by Voltage

Input Method:

AC-DC

DC-DC

Global Data Center Solid State Transformer (SST) Market, Segmentation by Semiconductor Devices:

IGBT SST

SiC MOSFET SST

Global Data Center Solid State Transformer (SST) Market, Segmentation by Application:

Enterprise Data Centers

Housing and Service Provider Data Centers

Hyperscale Data Centers

Companies Profiled:

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 Answered:

1. How big is the global Data Center Solid State Transformer (SST) market?
2. What is the demand of the global Data Center Solid State Transformer (SST) market?
3. What is the year over year growth of the global Data Center Solid State Transformer (SST) market?
4. What is the production and production value of the global Data Center Solid State Transformer (SST) market?
5. Who are the key producers in the global Data Center Solid State Transformer (SST) market?
6. What are the growth factors driving the market demand?

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