

Global Data Center Solid State Transformer (SST) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Data Center Solid State Transformer (SST) market size was valued at US\$ 36.53 million in 2025 and is forecast to a readjusted size of US\$ 700 million by 2032 with a CAGR of 30.5% during review period.

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 is a detailed and comprehensive analysis for global Data Center Solid State Transformer (SST) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Data Center Solid State Transformer (SST) market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Data Center Solid State Transformer (SST) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Data Center Solid State Transformer (SST) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Data Center Solid State Transformer (SST) market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Data Center Solid State Transformer (SST)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Data Center Solid State Transformer (SST) market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Data Center Solid State Transformer (SST) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single-port SST

Multi-port SST

Market segment by Voltage Input Method

AC-DC

DC-DC

Market segment by Semiconductor Devices

IGBT SST

SiC MOSFET SST

Market segment by Application

Enterprise Data Centers

Housing and Service Provider Data Centers

Hyperscale Data Centers

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Data Center Solid State Transformer (SST) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Data Center Solid State Transformer (SST), with price, sales quantity, revenue, and global market share of Data Center Solid State Transformer (SST) from 2021 to 2026.

Chapter 3, the Data Center Solid State Transformer (SST) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Data Center Solid State Transformer (SST) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Data Center Solid State Transformer (SST) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Data Center Solid State Transformer (SST).

Chapter 14 and 15, to describe Data Center Solid State Transformer (SST) sales channel, distributors, customers, research findings and conclusion.

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