

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

<https://marketpublishers.com/r/GF74EAAE0540EN.html>

Date: June 2026

Pages: 118

Price: US\$ 3,480.00 (Single User License)

ID: GF74EAAE0540EN

## Abstracts

According to our (Global Info Research) latest study, the global Solid-State Transformer (SST) for Data Center market size was valued at US\$ 1945 million in 2025 and is forecast to a readjusted size of US\$ 5094 million by 2032 with a CAGR of 14.6% during review period.

Solid-State Transformer (SST) for Data Center is a next-generation power conversion system specifically engineered for modern data center infrastructures, enabling high-frequency, digitally controlled voltage transformation and intelligent power distribution to support large-scale computing workloads with high efficiency, stability, and resilience. Compared with conventional transformers, it adopts a power electronics-based architecture to improve grid adaptability, dynamic load management, and system scalability, while significantly enhancing energy efficiency and operational reliability in hyperscale computing environments. Its key advantages include high power density, precise voltage regulation, bidirectional energy flow capability, and strong compatibility with renewable energy integration and direct current power architectures. In 2025, production was approximately 2,224 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. Downstream is

primarily composed of AI data centers, cloud computing data centers, and supercomputing centers, with representative customers including Google, Microsoft, Amazon Web Services, Meta, Alibaba Cloud, Tencent Cloud, and IBM.

This report is a detailed and comprehensive analysis for global Solid-State Transformer (SST) for Data Center 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 Solid-State Transformer (SST) for Data Center market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

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

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 Solid-State Transformer (SST) for Data Center 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 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), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Solid-State Transformer (SST) for Data Center 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

10-35kV

35-110kV

?110kV

### Market segment by Topology Architecture

Three-Stage Topology

Two-Stage Topology

### Market segment by Port Configuration

DC Solid-State Transformer

AC Solid-State Transformer

Others

#### Market segment by Application

AI Data Center

Cloud Computing Data Center

HPC Center

Others

#### Major players covered

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)

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 Solid-State Transformer (SST) for Data Center product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Solid-State Transformer (SST) for Data Center 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 Solid-State Transformer (SST) for Data Center 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 Solid-State Transformer (SST) for Data Center.

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

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