

Global SiC 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 SiC Solid-State Transformer (SST) market size was valued at US\$ 89.99 million in 2025 and is forecast to a readjusted size of US\$ 1681 million by 2032 with a CAGR of 36.5% during review period.

A SiC Solid-State Transformer (SST) is an advanced power electronic transformer system that uses silicon carbide power semiconductor devices, high-frequency isolation transformers, digital control, and modular converter technology to achieve voltage conversion and intelligent power management. Compared with traditional silicon-based SST designs, SiC SSTs can operate at higher switching frequencies, higher temperatures, and higher voltages, enabling smaller magnetic components, higher efficiency, and greater power density. They are mainly used in smart grids, renewable energy integration, EV fast charging, data centers, railway traction, microgrids, and medium-voltage power distribution systems.

Global production capacity is approximately 150 MW.

In 2025, global sales reached approximately 109 MW, with an average price of around US\$ 805 per kw, gross margin around 36%.

The SiC Solid-State Transformer market is an emerging high-value segment within advanced power electronics and next-generation transformer technology. Its main advantages include higher efficiency, higher switching frequency, smaller size, lighter weight, better thermal performance, and stronger compatibility with medium-voltage and DC distribution systems. In the short term, high SiC device cost, complex system

design, reliability validation, insulation requirements, and immature standards may restrict large-scale deployment. In the long term, as SiC costs decline and power grids become more electrified, digitalized, and decentralized, SiC SSTs are expected to gain wider adoption in smart grids, EV charging, data centers, renewable energy, and microgrids.

Market Trend

The SiC Solid-State Transformer market is developing toward high-efficiency, compact, modular, and medium-voltage power conversion solutions. As SiC MOSFETs and SiC power modules become more mature, SST systems can achieve higher switching frequency, lower losses, and improved thermal performance. The market trend is also moving toward multi-port SST architectures that can connect grids, renewable energy, energy storage, EV chargers, and DC loads. Although SiC SSTs are still in an early commercialization stage, pilot projects and demonstration applications are increasing in smart grids, high-power charging stations, data centers, and renewable energy power systems.

Market Drive

The main drivers of the SiC Solid-State Transformer market include grid modernization, renewable energy growth, EV fast-charging demand, and the need for higher power density. Traditional transformer systems face limitations in bidirectional power flow, voltage regulation, harmonic control, and AC/DC integration. SiC SSTs can provide active power control, bidirectional energy management, high-efficiency conversion, and compact system design. In EV charging and data centers, SiC devices help reduce system size and improve conversion efficiency. In renewable energy and microgrids, SiC SSTs support flexible connection between AC grids, DC buses, storage systems, and distributed energy resources.

Upstream and Downstream

The upstream supply chain of SiC Solid-State Transformers includes SiC wafer suppliers, SiC MOSFET and diode manufacturers, power module suppliers, gate driver companies, high-frequency transformer producers, magnetic material suppliers, capacitor suppliers, sensors, cooling system providers, PCB manufacturers, and digital control software developers. Key technical inputs include SiC power devices, high-voltage insulation materials, magnetic cores, thermal management systems, and real-time control algorithms. Downstream customers mainly include utilities, grid operators,

EV charging station operators, renewable energy developers, data center operators, railway systems, industrial parks, microgrid developers, and large commercial power users requiring compact and intelligent power conversion equipment.

This report is a detailed and comprehensive analysis for global SiC 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 SiC Solid-State Transformer (SST) market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (USD/KW), 2021-2032

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

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

Global SiC Solid-State Transformer (SST) market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (USD/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 SiC 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 SiC 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 Delta, Eaton, Amperesand, WG Energy, Sifang Automation, DG Matrix, China XD Electric, SolarEdge Technologies, Jinpan Smart Technology, Heron Power, etc.

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

Market Segmentation

SiC 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-stage SST

Multi-stage SST

Market segment by Voltage

Low-voltage SST

Medium-voltage SST

High-voltage SST

Market segment by Phase

Single-phase SST

Three-phase SST

Market segment by Application

Data Centers

Smart Grids

Others

Major players covered

Delta

Eaton

Amperesand

WG Energy

Sifang Automation

DG Matrix

China XD Electric

SolarEdge Technologies

Jinpan Smart Technology

Heron Power

Novos Power

Navitas Semiconductor

Infinity Flow

Hitachi Energy

Jiangsu Huachen Transformer

Sungrow Power

Newonder Special Electric

Kehua Data

Shenghong New Energy Equipment

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

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

Chapter 3, the SiC 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 SiC 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 SiC 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 SiC Solid-State Transformer (SST).

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

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