

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

<https://marketpublishers.com/r/GAA9AD8081CFEN.html>

Date: July 2026

Pages: 138

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

ID: GAA9AD8081CFEN

Abstracts

According to our (Global Info Research) latest study, the global Smart Grid Solid State Transformer (SST) market size was valued at US\$ 39.61 million in 2025 and is forecast to a readjusted size of US\$ 712 million by 2032 with a CAGR of 35.7% during review period.

A smart grid solid state transformer (SST) is an advanced power conversion device that replaces or supplements conventional electromagnetic transformers by using power electronic converters, high-frequency transformers, semiconductor switches, and digital control systems. In smart grid applications, SSTs can provide voltage transformation, AC/DC conversion, bidirectional power flow, reactive power compensation, power quality improvement, and real-time grid monitoring. They are especially suitable for grids with high renewable energy penetration, distributed energy resources, energy storage systems, electric vehicle charging infrastructure, and flexible distribution networks. Compared with traditional transformers, SSTs offer higher controllability, faster response, and stronger compatibility with digital grid management.

Global production capacity is approximately 80 MW.

In 2025, global sales reached approximately 47 MW, with an average price of around US\$ 821 per kw, gross margin around 38%.

The smart grid solid state transformers represent a promising but still emerging technology in the power distribution equipment market. Their value lies in combining transformer functions with power electronics, digital control, and grid management capabilities. Although traditional transformers will continue to dominate large-scale

deployment due to their low cost and proven reliability, SSTs are expected to grow in high-value applications that require flexibility, bidirectional conversion, power quality control, and renewable energy integration. Future competition will focus on efficiency, reliability, semiconductor cost, thermal design, modularity, grid compatibility, and lifecycle economics. As smart grids develop, SSTs are likely to become an important enabling technology.

Market Trend

The smart grid SST market is moving toward higher power density, modular architecture, wide-bandgap semiconductor adoption, and deeper integration with digital grid platforms. As power systems shift from centralized generation to distributed renewable energy and flexible loads, utilities need transformer technologies that can support bidirectional power flow, voltage regulation, and real-time energy management. Silicon carbide and gallium nitride devices are improving SST efficiency, switching frequency, and compactness. At the same time, SSTs are increasingly being tested in microgrids, renewable energy integration, EV charging hubs, data centers, and active distribution networks. However, commercialization remains gradual due to cost, reliability, and standardization challenges.

Market Drive

The main driver of the smart grid SST market is the modernization of distribution grids under the pressure of renewable energy, electrification, and digital power management. Conventional transformers are limited in functions such as active voltage regulation, harmonic control, grid-side communication, and bidirectional energy exchange. SSTs can help utilities manage solar and wind power fluctuations, connect energy storage systems, improve power quality, and support fast EV charging infrastructure. Growth in smart cities, microgrids, distributed energy resources, and low-carbon power systems is encouraging investment in advanced transformer technologies. Demand is also supported by grid resilience requirements and the need for more flexible power distribution equipment.

Upstream and Downstream

The upstream supply chain of smart grid SSTs includes power semiconductors, SiC and GaN devices, magnetic materials, high-frequency transformers, capacitors, inductors, sensors, digital controllers, power modules, cooling systems, insulation materials, and protection components. Key upstream suppliers include semiconductor manufacturers,

magnetic component producers, electronic component companies, and thermal management solution providers. Midstream companies design and integrate SST systems, power conversion modules, control software, and grid communication interfaces. Downstream customers include electric utilities, distribution network operators, renewable energy developers, microgrid operators, EV charging station developers, data center operators, industrial parks, rail transit systems, and smart city infrastructure projects.

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

Global Smart Grid 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 Smart Grid 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 Smart Grid 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 Smart Grid 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 Smart Grid 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

Smart Grid 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

Smart Distribution Grid

Renewable Energy & Energy Storage

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

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

Chapter 3, the Smart Grid 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 Smart Grid 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 Smart Grid 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 Smart Grid Solid State Transformer (SST).

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

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