

Global AI Data Center Solid State Transformer 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 AI Data Center Solid State Transformer 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.

An AI data center solid-state transformer (SST) is a cutting-edge power conversion device that plays a crucial role in modern data centers, particularly those optimized for artificial intelligence (AI) workloads. Unlike traditional transformers, which rely on electromechanical components, SSTs use solid-state electronics to efficiently convert electrical power at various voltage levels. This enables higher efficiency, better control, and more compact designs. In AI data centers, SSTs are particularly important for ensuring stable power supply and reducing energy loss, supporting the high performance and continuous operation required by AI and machine learning applications.

In 2025, global AI Data Center Solid State Transformer production reached approximately 46.6 MW, with an average global market price of around 731 USD/KW. The production capacity for AI Data Center Solid State Transformer in 2025 was approximately 50 MW. The typical gross profit margin for AI Data Center Solid State Transformer between 20% and 40%.

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

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

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

Global AI Data Center Solid State Transformer market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 AI Data Center Solid State Transformer
- 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 AI Data Center Solid State Transformer 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, Sifang Automation, Eaton, Vertiv, Amperesand, JST Power Equipment, Kehua, China XD Electric, Kerun Intelligent Control, WG Energy, etc.

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

Market Segmentation

AI Data Center Solid State Transformer 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 Current type

AC-DC

DC-DC

Market segment by Application

Enterprise Data Centers

Housing and Service Provider Data Centers

Hyperscale Data Centers

Major players covered

Delta

Sifang Automation

Eaton

Vertiv

Amperesand

JST Power Equipment

Kehua

China XD Electric

Kerun Intelligent Control

WG Energy

Schneider Electric

TGOOD Electric

TBEA

Newonder Special Electric

SolarEdge

Eaglerise

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 AI Data Center Solid State Transformer product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the AI Data Center Solid State Transformer 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 AI Data Center Solid State Transformer 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 AI Data Center Solid State Transformer.

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

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