

Global Transformers for Data Centers 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 Transformers for Data Centers market size was valued at US\$ 1452 million in 2025 and is forecast to a readjusted size of US\$ 3564 million by 2032 with a CAGR of 12.8% during review period.

Transformers for Data Centers are critical equipment designed specifically for data center power supply and distribution systems. Their primary functions include voltage conversion, electrical isolation, and power protection. They are responsible for reducing high- or medium-voltage grid power to the low-voltage power required by servers and related loads, and are a core component of data center power security systems. The demand for AI computing power is driving the expansion of data centers, and data center construction and power supply infrastructure are expected to accelerate.

Compared to conventional transformers, Transformers for Data Centers are designed with a greater emphasis on high reliability, low energy consumption, fire safety, and environmental adaptability. Common types include dry-type transformers (such as epoxy-cast), oil-immersed transformers (such as mineral oil or ester oil), and the more recently emerging liquid-immersed environmentally friendly transformers, each designed for different power supply links and environmental requirements.

Due to the extremely high requirements for power continuity and power quality in data centers, Transformers for Data Centers typically feature low noise, low losses, excellent heat dissipation, strong overload capacity, and compliance with various high-efficiency standards (such as DOE and EU energy efficiency standards). In large-scale data center projects, transformers are often used in conjunction with UPS systems, generator

sets, and energy storage equipment to form a complete redundant power supply system.

In 2025, global production of transformers for data centers reached 85,170 MW, with an average selling price of \$16.57 per kW.

Transformers for Data Centers, core components of power infrastructure, are experiencing a new round of technological upgrades and market transformation as the global digitalization process accelerates. Currently, the industry's mainstream technology is based on high-efficiency dry-type transformers. Amorphous alloy transformers, with their ultra-low no-load losses (60%-70% lower than traditional silicon steel transformers), are gaining popularity in hyperscale data centers. At the same time, to meet the demands of high power density, innovative solutions such as liquid-cooled transformers and intelligent monitoring systems are being piloted by leading technology companies. However, material costs (amorphous alloy transformers are 30% more expensive) and technical barriers continue to constrain their adoption, resulting in a market characterized by a clear demand for higher efficiency but gradual commercialization.

In recent years, global energy requirements for data centers have become increasingly stringent. Policies such as China's 'East-West Computing' project and the EU's Energy Efficiency Directive (EED) have both set higher PUE (Power Usage Effectiveness) standards for data centers, driving market demand for high-efficiency and energy-saving transformers. Furthermore, the trend toward green data centers is prompting operators to adopt renewable energy sources, which in turn places new demands on transformer compatibility and stability. In terms of market competition, international giants such as Schneider Electric, Hitachi Energy, Siemens Energy, and GE dominate the high-end market with their technological expertise and vertical integration capabilities. Chinese manufacturers, however, are achieving differentiated competition in emerging scenarios such as edge data centers through rapid response and customized services. Notably, policies and regulations are becoming a key driver. The continued upgrades to the EU's EU 548/2014 Tier 3 energy efficiency standards and China's GB 20052-2020 are forcing the industry to eliminate inefficient production capacity.

Looking ahead, the industry faces a critical window for technological decision-making. In the short term, a combination of amorphous alloys and digital monitoring will be the most cost-effective solution. In the long term, attention should be paid to the breakthrough potential of wide-bandgap semiconductor (SiC) transformers. Despite discussions about alternative technologies such as DC power supply and modular

integration, traditional AC transformers are expected to maintain a dominant market share for the next 5-10 years. For companies, building competitive advantages in three key areas?material innovation (such as the use of ultra-thin silicon steel), deep application development (such as liquid cooling system adaptation), and zero-carbon transformation (such as carbon footprint traceability)?will determine their survival in the second half of the competition. With the rise of emerging data center markets in Southeast Asia and the Middle East, companies with technological expertise and localized service capabilities are poised to reap the benefits of significant growth.

This report is a detailed and comprehensive analysis for global Transformers for Data Centers 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 Transformers for Data Centers market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Transformers for Data Centers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Transformers for Data Centers 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 Transformers for Data Centers 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 Transformers for Data Centers

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 Transformers for Data Centers 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 Hitachi Energy, Siemens Energy, Eaton, TMC Transformers, Hyosung Heavy Industries, Schneider Electric, GE, Virginia Transformer, Eaglerise Electric and Electronic, Guangdong Mingyang Electric, etc.

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

Market Segmentation

Transformers for Data Centers 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

Dry-type Transformers

Oil-immersed Transformers

Solid-State Transformer

Market segment by Voltage Class

EHV/HV??110kV?

HV?66kV?

MV?35kV / 33kV?

MV?20kV / 15kV / 13.8kV / 11kV?

LV??1kV?

Market segment by Insulation Medium

Mineral Oil

Natural Ester

Synthetic Ester

Dry-type Resin Cast

VPI Dry-type

Market segment by Application

Non-AI Data Centers

AI Data Centers

Major players covered

Hitachi Energy

Siemens Energy

Eaton

TMC Transformers

Hyosung Heavy Industries

Schneider Electric

GE

Virginia Transformer

Eaglerise Electric and Electronic

Guangdong Mingyang Electric

Hainan Jinpan Smart Technology Co., Ltd.

TBEA Co., Ltd.

Guangdong Shunna Electric Co.,Ltd.

Jiangsu Yangdian Science and Technology

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 Transformers for Data Centers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Transformers for Data Centers, with price, sales quantity, revenue, and global market share of Transformers for Data Centers from

2021 to 2026.

Chapter 3, the Transformers for Data Centers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Transformers for Data Centers 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 Transformers for Data Centers 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 Transformers for Data Centers.

Chapter 14 and 15, to describe Transformers for Data Centers sales channel, distributors, customers, research findings and conclusion.

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1.4.5 MV?20kV / 15kV / 13.8kV / 11kV?

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