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Global Transformers for Data Centers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Transformers for Data Centers market size is expected to reach $ 3564 million by 2032, rising at a market growth of 12.8% CAGR during the forecast period (2026-2032).
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

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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 studies the global Transformers for Data Centers production, demand, key

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manufacturers, and key regions.
This report is a detailed and comprehensive analysis of the world market for Transformers for Data Centers and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Transformers for Data Centers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Transformers for Data Centers total production and demand, 2021-2032, (MW)
Global Transformers for Data Centers total production value, 2021-2032, (USD Million)
Global Transformers for Data Centers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)
Global Transformers for Data Centers consumption by region & country, CAGR, 2021-2032 & (MW)
U.S. VS China: Transformers for Data Centers domestic production, consumption, key domestic manufacturers and share
Global Transformers for Data Centers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)
Global Transformers for Data Centers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)
Global Transformers for Data Centers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)
This report profiles key players in the global Transformers for Data Centers market based on the following parameters - company overview, production, value, 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.
Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Transformers for Data Centers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (MW) and average price (US$/KW) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.
Global Transformers for Data Centers Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Transformers for Data Centers Market, Segmentation by Type:

Dry-type Transformers

Oil-immersed Transformers

Solid-State Transformer

Global Transformers for Data Centers Market, Segmentation by Voltage Class:

EHV/HV??110kV?

HV?66kV?

MV?35kV / 33kV?

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

LV??1kV?

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Global Transformers for Data Centers Market, Segmentation by Insulation Medium:

Mineral Oil

Natural Ester

Synthetic Ester

Dry-type Resin Cast

VPI Dry-type

Global Transformers for Data Centers Market, Segmentation by Application:

Non-AI Data Centers

AI Data Centers

Companies Profiled:

Hitachi Energy

Siemens Energy

Eaton

TMC Transformers

Hyosung Heavy Industries

Schneider Electric

GE

Virginia Transformer

Eaglerise Electric and Electronic

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Guangdong Mingyang Electric

Hainan Jinpan Smart Technology Co., Ltd.

TBEA Co., Ltd.

Guangdong Shunna Electric Co.,Ltd.

Jiangsu Yangdian Science and Technology

Key Questions Answered:

1. How big is the global Transformers for Data Centers market?
2. What is the demand of the global Transformers for Data Centers market?
3. What is the year over year growth of the global Transformers for Data Centers market?
4. What is the production and production value of the global Transformers for Data Centers market?
5. Who are the key producers in the global Transformers for Data Centers market?
6. What are the growth factors driving the market demand?

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