

Global Photovoltaic Step-up Transformer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Photovoltaic Step-up Transformer market size is expected to reach \$ 2762 million by 2032, rising at a market growth of 7.5% CAGR during the forecast period (2026-2032).

In 2025, global market sales of PV step-up transformers are projected to reach approximately 61,252 units, with an average unit price of around \$26,500.

A PV step-up transformer is a device that utilizes the principle of electromagnetic induction to alter AC voltage; its primary components include a primary winding, a secondary winding, and an iron core. Currently, within the realm of PV power generation and inverter technology, the relatively low output voltage of inverters necessitates the use of step-up transformers to boost this voltage to a level compatible with grid connection requirements. Due to power limitations inherent in electronic components, the inverters typically deployed in grid-connected PV power stations generally do not exceed 500 kW in capacity. Consequently, PV step-up transformers frequently adopt a design featuring an axially split low-voltage winding structure, enabling a single transformer to simultaneously accommodate the output of two separate inverters.

The direct downstream market for PV step-up transformers comprises PV power station investors and operators, EPC contractors, PV-plus-storage system integrators, inverter manufacturers, and new energy engineering firms. In its official interpretation of distributed PV policies, the National Energy Administration (NEA) noted that?amidst the rapid expansion of distributed PV systems?grid connection and power absorption capacity have emerged as primary constraints hindering further development. The NEA emphasized the need for coordinated efforts across power generation sources, the grid, loads, and energy storage systems. This underscores the fact that future demand within

the PV sector will place increased emphasis on grid-connection equipment, voltage step-up apparatus, and overall grid integration capabilities.

Key market drivers include the following factors:

Continued Construction of PV Power Stations Drives Fundamental Demand for Step-Up Equipment

PV step-up transformers constitute critical components within the grid-connection systems of PV power stations, primarily fulfilling the functions of boosting inverter output voltage, facilitating the connection of collection lines, and enabling grid integration for the power station. As the construction of centralized PV bases, distributed commercial and industrial PV systems, 'Agri-PV' (agriculture-integrated PV), 'Fishery-PV' (aquaculture-integrated PV), and large-scale overseas PV projects continues to advance, the demand for step-up transformers, compact substations, and integrated inverter-transformer units remains robust. The National Energy Administration has also noted that, following the rapid expansion of distributed PV systems, grid connection and power absorption have emerged as significant constraints; the industry therefore requires a coordinated approach to the development of power sources, grids, loads, and energy storage systems. This implies that the construction of PV projects now demands not only solar modules and inverters but also more sophisticated step-up, grid-connection, and ancillary electrical equipment.

Heightened Requirements for New Energy Absorption and Grid Integration Drive Product Upgrades Toward High Reliability and High Integration

As the installed capacity of PV systems expands, grid operators have significantly raised their standards regarding the quality of new energy grid connections, voltage stability, system protection, remote monitoring capabilities, and operational reliability. Consequently, the PV step-up transformer is evolving beyond its traditional role as a mere voltage conversion device; it is gradually transforming into a highly integrated system solution encompassing the transformer itself, medium-voltage switchgear, protection and control systems, communication and monitoring modules, and a prefabricated enclosure. Policies issued by the National Energy Administration regarding the grid integration of new energy sources explicitly call for accelerating the construction of supporting grid infrastructure for new energy projects, optimizing grid connection procedures, and driving the development of ancillary grid projects for key wind and solar power bases. This initiative is expected to continuously stimulate demand for booster stations, compact substations, main transformers, medium-voltage

switchgear, and grid connection equipment.

The Convergence of PV and Energy Storage, Overseas Grid Modernization, and Equipment Localization Drive Long-Term Growth Potential

As the mandated ratio of energy storage capacity integrated with solar power projects increases, PV booster transformers must adapt to more complex operating conditions?including bidirectional power flow, integration with Power Conversion Systems (PCS), frequent charging and discharging cycles, and stringent requirements for harmonic suppression and temperature rise control. This necessity is driving a product evolution away from standard PV compact substations toward integrated PV-plus-storage booster units, intelligent compact substations, and prefabricated modular electrical systems. Concurrently, the growth of overseas new energy projects, the modernization of aging power grids abroad, and the rising electricity demand from data centers are generating additional demand for transformers. Chinese enterprises possess distinct advantages in manufacturing costs, delivery speed, and supply chain efficiency across the fields of compact substations, dry-type transformers, oil-immersed transformers, complete electrical sets, and system integration. Consequently, the primary focus of future growth is expected to shift from domestic standardized projects toward the burgeoning overseas markets for new energy, energy storage, and high-end power equipment.

This report studies the global Photovoltaic Step-up Transformer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photovoltaic Step-up Transformer 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 Photovoltaic Step-up Transformer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Photovoltaic Step-up Transformer total production and demand, 2021-2032, (Units)

Global Photovoltaic Step-up Transformer total production value, 2021-2032, (USD Million)

Global Photovoltaic Step-up Transformer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Photovoltaic Step-up Transformer consumption by region & country, CAGR,

2021-2032 & (Units)

U.S. VS China: Photovoltaic Step-up Transformer domestic production, consumption, key domestic manufacturers and share

Global Photovoltaic Step-up Transformer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Photovoltaic Step-up Transformer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Photovoltaic Step-up Transformer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Photovoltaic Step-up Transformer 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 Mingyang Electric (CN), Eaglerise (CN), TBEA (CN), Siemens (DE), Prolec GE (MX), Virginia Transformer (US), ASTOR (TR), Schneider (FR), Hitachi Energy (CH), Shandong Taikai (CN), 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 Photovoltaic Step-up Transformer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) 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 Photovoltaic Step-up Transformer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photovoltaic Step-up Transformer Market, Segmentation by Type:

Oil Immersed Transformer

Dry-type Transformer

Global Photovoltaic Step-up Transformer Market, Segmentation by Functional Category:

Voltage Step-up Type

Integrated Box-type Substation

PV-Storage Coordinated Type

Other

Global Photovoltaic Step-up Transformer Market, Segmentation by Voltage Class:

10?35 kV

66 kV

110 kV and Above

Global Photovoltaic Step-up Transformer Market, Segmentation by Application:

Ground Power Plant Photovoltaic System

Industrial and Commercial Rooftop Photovoltaic Systems

Other

Companies Profiled:

Mingyang Electric (CN)

Eaglerise (CN)

TBEA (CN)

Siemens (DE)

Prolec GE (MX)

Virginia Transformer (US)

ASTOR (TR)

Schneider (FR)

Hitachi Energy (CH)

Shandong Taikai (CN)

Jiangsu Huapeng (CN)

Chint Electrics (CN)

Sanbian Sci-Tech (CN)

Mingzhu Electric (CN)

ELTAS (TR)

Xinte Electric (CN)

Meidensha?JP?

Key Questions Answered:

1. How big is the global Photovoltaic Step-up Transformer market?
2. What is the demand of the global Photovoltaic Step-up Transformer market?
3. What is the year over year growth of the global Photovoltaic Step-up Transformer market?
4. What is the production and production value of the global Photovoltaic Step-up Transformer market?
5. Who are the key producers in the global Photovoltaic Step-up Transformer market?
6. What are the growth factors driving the market demand?

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