

Global Large-Scale Power Plant String Inverter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Large-Scale Power Plant String Inverter market size is expected to reach \$ 3656 million by 2032, rising at a market growth of 4.3% CAGR during the forecast period (2026-2032).

Large-scale power plant string inverters are core equipment in photovoltaic power plants that convert direct current (DC) generated by photovoltaic modules into alternating current (AC) and feed it into the power grid. They can be used in large centralized power plants as well as medium-sized ground-mounted photovoltaic arrays, enabling efficient power plant operation, maximum power point tracking (MPPT), and equipment monitoring. As a core component of large-scale ground-mounted and mountainous photovoltaic power plants, they offer advantages such as multiple MPPTs, high efficiency (>98%), high protection rating (IP66/67), and refined operation and maintenance. Compared to centralized inverters, they significantly improve power generation in complex terrain. Mainstream products are trending towards higher current and ultra-high power (>200kW) outputs, compatible with bifacial modules.

The upstream sector primarily includes suppliers of core electronic components such as photovoltaic modules (solar panels), semiconductor power devices (IGBTs, SiC MOSFETs), transformers, capacitors, and inductors, as well as suppliers of heat dissipation, housings, and sheet metal materials. These suppliers provide the key materials and hardware foundation required for DC-AC conversion in string inverters. The midstream sector comprises string inverter manufacturers and system integrators. These companies are responsible for inverter design, power circuit development, MPPT control algorithms, protection and communication interface integration, and overall assembly and testing to ensure the equipment is efficient, reliable, and compatible with grid requirements. The downstream sector consists of large-scale photovoltaic power

plant operators, developers, and EPC contractors. They integrate string inverters with photovoltaic modules, combiner systems, and distribution facilities to build MW-level or even GW-level photovoltaic power plants, achieving stable grid connection and power output.

In 2025, global sales of string inverters for large-scale power plants reached 118.7GW, with a production capacity of approximately 160GW. The average selling price was \$22.3/kW, and the average gross profit margin was 20%-30%.

The global supply chain for string inverters for large-scale power plants is primarily comprised of leading international inverter manufacturers, regional suppliers, and system integrators. Leading companies dominate the high-end market, leveraging their technological R&D capabilities, reliability, and global service networks to create a competitive advantage in large-scale photovoltaic (PV) power plants. China, Europe, and North America are the main manufacturing and R&D bases. Chinese companies have rapidly gained market share through large-scale production and cost control, while European and North American companies have differentiated themselves in the areas of high reliability and long lifespan inverters.

Large-scale PV power plants are the primary application market for string inverters, with downstream demand driven by ground-mounted PV power plants, commercial and industrial PV projects, and medium-to-large-scale distributed PV power plants. With the continued growth of global PV installed capacity and the increasing number of distributed and centralized PV projects, string inverters demonstrate significant advantages in improving power generation efficiency, reducing operation and maintenance costs, and optimizing energy management. New energy policies, carbon emission reduction targets, and the demand for peak shaving and valley filling are also important drivers of the growth in the power plant string inverter market.

String inverter technology is evolving towards higher power output, greater intelligence, and optimized reliability. Early products had lower power output and simpler functions, while current large string inverters have achieved power levels of 150–300 kW or higher, supporting multiple MPPTs, liquid cooling, remote monitoring, and intelligent operation and maintenance. Technological trends include modular design, integration of EMS/SCADA systems, support for energy storage interfaces, and collaborative operation with photovoltaic-storage-charging systems, improving power generation and power plant operation and maintenance efficiency while reducing system failure risks and on-site construction complexity.

This report studies the global Large-Scale Power Plant String Inverter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Large-Scale Power Plant String Inverter 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 Large-Scale Power Plant String Inverter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Large-Scale Power Plant String Inverter total production and demand, 2021-2032, (MW)

Global Large-Scale Power Plant String Inverter total production value, 2021-2032, (USD Million)

Global Large-Scale Power Plant String Inverter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global Large-Scale Power Plant String Inverter consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: Large-Scale Power Plant String Inverter domestic production, consumption, key domestic manufacturers and share

Global Large-Scale Power Plant String Inverter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global Large-Scale Power Plant String Inverter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global Large-Scale Power Plant String Inverter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Large-Scale Power Plant String Inverter 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 SMA Solar, Kaco, Solectria Renewables, Fronius, Ingeteam, ABB, Schneider Electric, TMEIC, LS Electric, Huawei, 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 Large-Scale Power Plant String Inverter 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 Large-Scale Power Plant String Inverter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Large-Scale Power Plant String Inverter Market, Segmentation by Type:

Network Structure

And Network Type

Global Large-Scale Power Plant String Inverter Market, Segmentation by Power:

?350kW

350kW-500kW

?500kW

Global Large-Scale Power Plant String Inverter Market, Segmentation by Insulation Method:

With Transformer

Without Transformer

Global Large-Scale Power Plant String Inverter Market, Segmentation by Application:

Ground-Mounted Power Stations in Complex Terrain

Agricultural-Solar Hybrid Power Stations

Power Stations in Extreme Environments

Power Stations in Areas with Weak Grids

Other

Companies Profiled:

SMA Solar

Kaco

Solectria Renewables

Fronius

Ingeteam

ABB

Schneider Electric

TMEIC

LS Electric

Huawei

Ginlong

Sungrow

TBEA

Sineng

GoodWe

Growatt

SolaX

Key Questions Answered:

1. How big is the global Large-Scale Power Plant String Inverter market?
2. What is the demand of the global Large-Scale Power Plant String Inverter market?
3. What is the year over year growth of the global Large-Scale Power Plant String Inverter market?
4. What is the production and production value of the global Large-Scale Power Plant String Inverter market?
5. Who are the key producers in the global Large-Scale Power Plant String Inverter market?
6. What are the growth factors driving the market demand?

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