

Global Photovoltaic Module Temperature Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Photovoltaic Module Temperature Sensor market size is expected to reach \$ 1012 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

In 2025, global sales of photovoltaic (PV) module temperature sensors reached 180 million units, with an average selling price of \$3.2 per unit. PV module temperature sensors are key devices used for real-time monitoring of the surface or backsheet temperature of solar cell modules. They are typically based on thermistor (NTC), thermocouple, or digital temperature chip principles. Installed in contact with the module or mounting bracket, they transmit temperature data to the inverter or monitoring system. This data is used to assess power generation efficiency, prevent hot spot effects, and ensure safe system operation. They are widely used in centralized power plants, distributed PV, and residential rooftop systems. Sensors can be categorized by type (contact or embedded) and by output method (analog or digital).

The upstream mainly includes raw materials such as semiconductor sensing elements, copper wires, packaging materials, connectors, and cables. Downstream mainly consists of PV module manufacturers, inverter manufacturers, and power plant EPC integrators. Global total production capacity is approximately 240 million units per year, with an industry gross margin of approximately 22%-30%.

In the future, with the continuous expansion of photovoltaic installations and the increasing demand for intelligent operation and maintenance, temperature sensors will develop towards high precision, long lifespan, and wireless monitoring. At the same time, they will play a more critical role in digital operation and maintenance and intelligent power plant management systems. The industry has continuous growth

potential and business opportunities in system integration and data service extension.

The photovoltaic (PV) module temperature sensor market exhibits a typical dual-growth characteristic of 'scale-driven growth + operation and maintenance upgrades,' with its development highly dependent on the continuous expansion of global PV installation capacity. With the rapid deployment of large-scale ground-mounted power plants and distributed PV systems, the importance of monitoring module operating status is constantly increasing. Temperature, as one of the core parameters affecting power generation efficiency and module lifespan, makes these sensors an indispensable basic component in PV systems.

From a demand structure perspective, the early market focused on basic monitoring, while currently it is transitioning towards refined operation and maintenance. Maintenance providers are paying more attention to hot spot early warning, fault location, and power generation efficiency optimization, driving sensor upgrades towards higher precision, higher stability, and networking. Technologically, products are gradually evolving from traditional wired temperature measurement to wireless transmission, low power consumption, and integrated solutions, deeply integrating with data acquisition systems, inverters, and cloud platforms, becoming an important data entry point for smart PV power plants. Regionally, demand is strong in major PV installation regions such as China, Europe, and the United States, with emerging markets experiencing even faster growth.

In the future, with the development of 'photovoltaic + energy storage' and smart energy management models, temperature sensors will transform from a single monitoring function to a system-level sensing node, while playing a greater role in digital operation and maintenance, AI diagnosis and remote monitoring systems. The industry has structural growth opportunities to extend from hardware sales to 'equipment + data services'.

This report studies the global Photovoltaic Module Temperature Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photovoltaic Module Temperature Sensor 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 Module Temperature Sensor that contribute to its increasing demand across many

markets.

Highlights and key features of the study

Global Photovoltaic Module Temperature Sensor total production and demand, 2021-2032, (K Units)

Global Photovoltaic Module Temperature Sensor total production value, 2021-2032, (USD Million)

Global Photovoltaic Module Temperature Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Photovoltaic Module Temperature Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Photovoltaic Module Temperature Sensor domestic production, consumption, key domestic manufacturers and share

Global Photovoltaic Module Temperature Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Photovoltaic Module Temperature Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Photovoltaic Module Temperature Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Photovoltaic Module Temperature Sensor 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 IMT Technology, Hukseflux, LAMBRECHT, Fronius International GmbH, Rika Sensor, SolarEdge, TOPOS, Riello Solartech, CIRCUTOR, NiuBoL, 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 Module Temperature Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (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 Module Temperature Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photovoltaic Module Temperature Sensor Market, Segmentation by Type:

Contact Type

Embedded Type

Global Photovoltaic Module Temperature Sensor Market, Segmentation by Output Method:

Analog Signal Type

Digital Signal Type

Global Photovoltaic Module Temperature Sensor Market, Segmentation by Installation Location:

Backplane Temperature Sensor

Ambient Temperature Sensor

Global Photovoltaic Module Temperature Sensor Market, Segmentation by Application:

Desert Power Station

Floating Photovoltaic Power Station

Others

Companies Profiled:

IMT Technology

Hukseflux

LAMBRECHT

Fronius International GmbH

Rika Sensor

SolarEdge

TOPOS

Riello Solartech

CIRCUTOR

NiuBoL

Seaward

SEVEN Sensor

HENGXINJI

DOWAYTECH

Honde Technology Co.,Ltd

YANGGUANG

Key Questions Answered:

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

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