

Global Photovoltaic Module Temperature Sensor 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 Photovoltaic Module Temperature Sensor market size was valued at US\$ 593 million in 2025 and is forecast to a readjusted size of US\$ 1012 million by 2032 with a CAGR of 7.9% during review period.

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 is a detailed and comprehensive analysis for global Photovoltaic Module Temperature Sensor 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 Photovoltaic Module Temperature Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Photovoltaic Module Temperature Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Photovoltaic Module Temperature Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Photovoltaic Module Temperature Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Photovoltaic Module Temperature Sensor
- 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 Photovoltaic Module Temperature Sensor 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 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.

Market Segmentation

Photovoltaic Module Temperature Sensor 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

- Contact Type

- Embedded Type

Market segment by Output Method

- Analog Signal Type

- Digital Signal Type

Market segment by Installation Location

- Backplane Temperature Sensor

- Ambient Temperature Sensor

Market segment by Application

- Desert Power Station

- Floating Photovoltaic Power Station

- Others

Major players covered

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

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 Photovoltaic Module Temperature Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Photovoltaic Module Temperature Sensor, with price, sales quantity, revenue, and global market share of Photovoltaic Module Temperature Sensor from 2021 to 2026.

Chapter 3, the Photovoltaic Module Temperature Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Photovoltaic Module Temperature Sensor 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 Photovoltaic Module Temperature Sensor 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 Photovoltaic

Module Temperature Sensor.

Chapter 14 and 15, to describe Photovoltaic Module Temperature Sensor sales channel, distributors, customers, research findings and conclusion.

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