

Global Photovoltaic Module Temperature Sensor Market Growth 2026-2032

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Abstracts

The global Photovoltaic Module Temperature Sensor market size is predicted to grow from US\$ 564 million in 2025 to US\$ 989 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 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'.

LP Information, Inc. (LPI) ' newest research report, the 'Photovoltaic Module Temperature Sensor Industry Forecast' looks at past sales and reviews total world Photovoltaic Module Temperature Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Photovoltaic Module Temperature Sensor sales for 2026 through 2032. With Photovoltaic Module Temperature Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Photovoltaic Module Temperature Sensor industry.

This Insight Report provides a comprehensive analysis of the global Photovoltaic Module Temperature Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Photovoltaic Module Temperature Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Photovoltaic Module Temperature Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Photovoltaic Module Temperature Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Photovoltaic Module Temperature Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Photovoltaic Module Temperature Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Contact Type

Embedded Type

Segmentation by Output Method:

Analog Signal Type

Digital Signal Type

Segmentation by Installation Location:

Backplane Temperature Sensor

Ambient Temperature Sensor

Segmentation by Application:

Desert Power Station

Floating Photovoltaic Power Station

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Photovoltaic Module Temperature Sensor market?

What factors are driving Photovoltaic Module Temperature Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Photovoltaic Module Temperature Sensor market opportunities vary by end market size?

How does Photovoltaic Module Temperature Sensor break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Photovoltaic Module Temperature Sensor Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Photovoltaic Module Temperature Sensor by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Photovoltaic Module Temperature Sensor by Country/Region, 2021, 2025 & 2032

2.2 Photovoltaic Module Temperature Sensor Segment by Type

- 2.2.1 Contact Type
- 2.2.2 Embedded Type
- 2.2.3 Photovoltaic Module Temperature Sensor Sales by Type
 - 2.2.3.1 Global Photovoltaic Module Temperature Sensor Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Photovoltaic Module Temperature Sensor Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Photovoltaic Module Temperature Sensor Sale Price by Type (2021-2026)

2.3 Photovoltaic Module Temperature Sensor Segment by Output Method

- 2.3.1 Analog Signal Type
- 2.3.2 Digital Signal Type
- 2.3.3 Photovoltaic Module Temperature Sensor Sales by Output Method
 - 2.3.3.1 Global Photovoltaic Module Temperature Sensor Sales Market Share by Output Method (2021-2026)
 - 2.3.3.2 Global Photovoltaic Module Temperature Sensor Revenue and Market Share by Output Method (2021-2026)

2.3.3.3 Global Photovoltaic Module Temperature Sensor Sale Price by Output Method (2021-2026)

2.4 Photovoltaic Module Temperature Sensor Segment by Installation Location

2.4.1 Backplane Temperature Sensor

2.4.2 Ambient Temperature Sensor

2.4.3 Photovoltaic Module Temperature Sensor Sales by Installation Location

2.4.3.1 Global Photovoltaic Module Temperature Sensor Sales Market Share by Installation Location (2021-2026)

2.4.3.2 Global Photovoltaic Module Temperature Sensor Revenue and Market Share by Installation Location (2021-2026)

2.4.3.3 Global Photovoltaic Module Temperature Sensor Sale Price by Installation Location (2021-2026)

2.5 Photovoltaic Module Temperature Sensor Segment by Application

2.5.1 Desert Power Station

2.5.2 Floating Photovoltaic Power Station

2.5.3 Others

2.5.4 Photovoltaic Module Temperature Sensor Sales by Application

2.5.4.1 Global Photovoltaic Module Temperature Sensor Sale Market Share by Application (2021-2026)

2.5.4.2 Global Photovoltaic Module Temperature Sensor Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global Photovoltaic Module Temperature Sensor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Photovoltaic Module Temperature Sensor Breakdown Data by Company

3.1.1 Global Photovoltaic Module Temperature Sensor Annual Sales by Company (2021-2026)

3.1.2 Global Photovoltaic Module Temperature Sensor Sales Market Share by Company (2021-2026)

3.2 Global Photovoltaic Module Temperature Sensor Annual Revenue by Company (2021-2026)

3.2.1 Global Photovoltaic Module Temperature Sensor Revenue by Company (2021-2026)

3.2.2 Global Photovoltaic Module Temperature Sensor Revenue Market Share by Company (2021-2026)

3.3 Global Photovoltaic Module Temperature Sensor Sale Price by Company

3.4 Key Manufacturers Photovoltaic Module Temperature Sensor Producing Area

Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Photovoltaic Module Temperature Sensor Product Location

Distribution

3.4.2 Players Photovoltaic Module Temperature Sensor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PHOTOVOLTAIC MODULE TEMPERATURE SENSOR BY GEOGRAPHIC REGION

4.1 World Historic Photovoltaic Module Temperature Sensor Market Size by Geographic Region (2021-2026)

4.1.1 Global Photovoltaic Module Temperature Sensor Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Photovoltaic Module Temperature Sensor Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Photovoltaic Module Temperature Sensor Market Size by Country/Region (2021-2026)

4.2.1 Global Photovoltaic Module Temperature Sensor Annual Sales by Country/Region (2021-2026)

4.2.2 Global Photovoltaic Module Temperature Sensor Annual Revenue by Country/Region (2021-2026)

4.3 Americas Photovoltaic Module Temperature Sensor Sales Growth

4.4 APAC Photovoltaic Module Temperature Sensor Sales Growth

4.5 Europe Photovoltaic Module Temperature Sensor Sales Growth

4.6 Middle East & Africa Photovoltaic Module Temperature Sensor Sales Growth

5 AMERICAS

5.1 Americas Photovoltaic Module Temperature Sensor Sales by Country

5.1.1 Americas Photovoltaic Module Temperature Sensor Sales by Country (2021-2026)

5.1.2 Americas Photovoltaic Module Temperature Sensor Revenue by Country (2021-2026)

5.2 Americas Photovoltaic Module Temperature Sensor Sales by Type (2021-2026)

5.3 Americas Photovoltaic Module Temperature Sensor Sales by Application

(2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Photovoltaic Module Temperature Sensor Sales by Region

6.1.1 APAC Photovoltaic Module Temperature Sensor Sales by Region (2021-2026)

6.1.2 APAC Photovoltaic Module Temperature Sensor Revenue by Region

(2021-2026)

6.2 APAC Photovoltaic Module Temperature Sensor Sales by Type (2021-2026)

6.3 APAC Photovoltaic Module Temperature Sensor Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Photovoltaic Module Temperature Sensor by Country

7.1.1 Europe Photovoltaic Module Temperature Sensor Sales by Country (2021-2026)

7.1.2 Europe Photovoltaic Module Temperature Sensor Revenue by Country

(2021-2026)

7.2 Europe Photovoltaic Module Temperature Sensor Sales by Type (2021-2026)

7.3 Europe Photovoltaic Module Temperature Sensor Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Photovoltaic Module Temperature Sensor by Country

8.1.1 Middle East & Africa Photovoltaic Module Temperature Sensor Sales by Country (2021-2026)

8.1.2 Middle East & Africa Photovoltaic Module Temperature Sensor Revenue by Country (2021-2026)

8.2 Middle East & Africa Photovoltaic Module Temperature Sensor Sales by Type (2021-2026)

8.3 Middle East & Africa Photovoltaic Module Temperature Sensor Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Photovoltaic Module Temperature Sensor

10.3 Manufacturing Process Analysis of Photovoltaic Module Temperature Sensor

10.4 Industry Chain Structure of Photovoltaic Module Temperature Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Photovoltaic Module Temperature Sensor Distributors

11.3 Photovoltaic Module Temperature Sensor Customer

12 WORLD FORECAST REVIEW FOR PHOTOVOLTAIC MODULE TEMPERATURE SENSOR BY GEOGRAPHIC REGION

12.1 Global Photovoltaic Module Temperature Sensor Market Size Forecast by Region

12.1.1 Global Photovoltaic Module Temperature Sensor Forecast by Region
(2027-2032)

12.1.2 Global Photovoltaic Module Temperature Sensor Annual Revenue Forecast by
Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Photovoltaic Module Temperature Sensor Forecast by Type (2027-2032)

12.7 Global Photovoltaic Module Temperature Sensor Forecast by Application
(2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 IMT Technology

13.1.1 IMT Technology Company Information

13.1.2 IMT Technology Photovoltaic Module Temperature Sensor Product Portfolios
and Specifications

13.1.3 IMT Technology Photovoltaic Module Temperature Sensor Sales, Revenue,
Price and Gross Margin (2021-2026)

13.1.4 IMT Technology Main Business Overview

13.1.5 IMT Technology Latest Developments

13.2 Hukseflux

13.2.1 Hukseflux Company Information

13.2.2 Hukseflux Photovoltaic Module Temperature Sensor Product Portfolios and
Specifications

13.2.3 Hukseflux Photovoltaic Module Temperature Sensor Sales, Revenue, Price and
Gross Margin (2021-2026)

13.2.4 Hukseflux Main Business Overview

13.2.5 Hukseflux Latest Developments

13.3 LAMBRECHT

13.3.1 LAMBRECHT Company Information

13.3.2 LAMBRECHT Photovoltaic Module Temperature Sensor Product Portfolios and
Specifications

13.3.3 LAMBRECHT Photovoltaic Module Temperature Sensor Sales, Revenue, Price
and Gross Margin (2021-2026)

13.3.4 LAMBRECHT Main Business Overview

13.3.5 LAMBRECHT Latest Developments

13.4 Fronius International GmbH

13.4.1 Fronius International GmbH Company Information

13.4.2 Fronius International GmbH Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

13.4.3 Fronius International GmbH Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Fronius International GmbH Main Business Overview

13.4.5 Fronius International GmbH Latest Developments

13.5 Rika Sensor

13.5.1 Rika Sensor Company Information

13.5.2 Rika Sensor Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

13.5.3 Rika Sensor Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Rika Sensor Main Business Overview

13.5.5 Rika Sensor Latest Developments

13.6 SolarEdge

13.6.1 SolarEdge Company Information

13.6.2 SolarEdge Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

13.6.3 SolarEdge Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 SolarEdge Main Business Overview

13.6.5 SolarEdge Latest Developments

13.7 TOPOS

13.7.1 TOPOS Company Information

13.7.2 TOPOS Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

13.7.3 TOPOS Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 TOPOS Main Business Overview

13.7.5 TOPOS Latest Developments

13.8 Riello Solartech

13.8.1 Riello Solartech Company Information

13.8.2 Riello Solartech Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

13.8.3 Riello Solartech Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Riello Solartech Main Business Overview

- 13.8.5 Riello Solartech Latest Developments
- 13.9 CIRCUTOR
 - 13.9.1 CIRCUTOR Company Information
 - 13.9.2 CIRCUTOR Photovoltaic Module Temperature Sensor Product Portfolios and Specifications
 - 13.9.3 CIRCUTOR Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 CIRCUTOR Main Business Overview
 - 13.9.5 CIRCUTOR Latest Developments
- 13.10 NiuBoL
 - 13.10.1 NiuBoL Company Information
 - 13.10.2 NiuBoL Photovoltaic Module Temperature Sensor Product Portfolios and Specifications
 - 13.10.3 NiuBoL Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 NiuBoL Main Business Overview
 - 13.10.5 NiuBoL Latest Developments
- 13.11 Seaward
 - 13.11.1 Seaward Company Information
 - 13.11.2 Seaward Photovoltaic Module Temperature Sensor Product Portfolios and Specifications
 - 13.11.3 Seaward Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Seaward Main Business Overview
 - 13.11.5 Seaward Latest Developments
- 13.12 SEVEN Sensor
 - 13.12.1 SEVEN Sensor Company Information
 - 13.12.2 SEVEN Sensor Photovoltaic Module Temperature Sensor Product Portfolios and Specifications
 - 13.12.3 SEVEN Sensor Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 SEVEN Sensor Main Business Overview
 - 13.12.5 SEVEN Sensor Latest Developments
- 13.13 HENGXINJI
 - 13.13.1 HENGXINJI Company Information
 - 13.13.2 HENGXINJI Photovoltaic Module Temperature Sensor Product Portfolios and Specifications
 - 13.13.3 HENGXINJI Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.13.4 HENGXINJI Main Business Overview
- 13.13.5 HENGXINJI Latest Developments
- 13.14 DOWAYTECH
 - 13.14.1 DOWAYTECH Company Information
 - 13.14.2 DOWAYTECH Photovoltaic Module Temperature Sensor Product Portfolios and Specifications
 - 13.14.3 DOWAYTECH Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 DOWAYTECH Main Business Overview
 - 13.14.5 DOWAYTECH Latest Developments
- 13.15 Honde Technology Co.,Ltd
 - 13.15.1 Honde Technology Co.,Ltd Company Information
 - 13.15.2 Honde Technology Co.,Ltd Photovoltaic Module Temperature Sensor Product Portfolios and Specifications
 - 13.15.3 Honde Technology Co.,Ltd Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Honde Technology Co.,Ltd Main Business Overview
 - 13.15.5 Honde Technology Co.,Ltd Latest Developments
- 13.16 YANGGUANG
 - 13.16.1 YANGGUANG Company Information
 - 13.16.2 YANGGUANG Photovoltaic Module Temperature Sensor Product Portfolios and Specifications
 - 13.16.3 YANGGUANG Photovoltaic Module Temperature Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 YANGGUANG Main Business Overview
 - 13.16.5 YANGGUANG Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Photovoltaic Module Temperature Sensor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Photovoltaic Module Temperature Sensor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Contact Type
- Table 4. Major Players of Embedded Type
- Table 5. Global Photovoltaic Module Temperature Sensor Sales by Type (2021-2026) & (K Units)
- Table 6. Global Photovoltaic Module Temperature Sensor Sales Market Share by Type (2021-2026)
- Table 7. Global Photovoltaic Module Temperature Sensor Revenue by Type (2021-2026) & (\$ million)
- Table 8. Global Photovoltaic Module Temperature Sensor Revenue Market Share by Type (2021-2026)
- Table 9. Global Photovoltaic Module Temperature Sensor Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 10. Major Players of Analog Signal Type
- Table 11. Major Players of Digital Signal Type
- Table 12. Global Photovoltaic Module Temperature Sensor Sales by Output Method (2021-2026) & (K Units)
- Table 13. Global Photovoltaic Module Temperature Sensor Sales Market Share by Output Method (2021-2026)
- Table 14. Global Photovoltaic Module Temperature Sensor Revenue by Output Method (2021-2026) & (\$ million)
- Table 15. Global Photovoltaic Module Temperature Sensor Revenue Market Share by Output Method (2021-2026)
- Table 16. Global Photovoltaic Module Temperature Sensor Sale Price by Output Method (2021-2026) & (US\$/Unit)
- Table 17. Major Players of Backplane Temperature Sensor
- Table 18. Major Players of Ambient Temperature Sensor
- Table 19. Global Photovoltaic Module Temperature Sensor Sales by Installation Location (2021-2026) & (K Units)
- Table 20. Global Photovoltaic Module Temperature Sensor Sales Market Share by Installation Location (2021-2026)
- Table 21. Global Photovoltaic Module Temperature Sensor Revenue by Installation

Location (2021-2026) & (\$ million)

Table 22. Global Photovoltaic Module Temperature Sensor Revenue Market Share by Installation Location (2021-2026)

Table 23. Global Photovoltaic Module Temperature Sensor Sale Price by Installation Location (2021-2026) & (US\$/Unit)

Table 24. Global Photovoltaic Module Temperature Sensor Sale by Application (2021-2026) & (K Units)

Table 25. Global Photovoltaic Module Temperature Sensor Sale Market Share by Application (2021-2026)

Table 26. Global Photovoltaic Module Temperature Sensor Revenue by Application (2021-2026) & (\$ million)

Table 27. Global Photovoltaic Module Temperature Sensor Revenue Market Share by Application (2021-2026)

Table 28. Global Photovoltaic Module Temperature Sensor Sale Price by Application (2021-2026) & (US\$/Unit)

Table 29. Global Photovoltaic Module Temperature Sensor Sales by Company (2021-2026) & (K Units)

Table 30. Global Photovoltaic Module Temperature Sensor Sales Market Share by Company (2021-2026)

Table 31. Global Photovoltaic Module Temperature Sensor Revenue by Company (2021-2026) & (\$ millions)

Table 32. Global Photovoltaic Module Temperature Sensor Revenue Market Share by Company (2021-2026)

Table 33. Global Photovoltaic Module Temperature Sensor Sale Price by Company (2021-2026) & (US\$/Unit)

Table 34. Key Manufacturers Photovoltaic Module Temperature Sensor Producing Area Distribution and Sales Area

Table 35. Players Photovoltaic Module Temperature Sensor Products Offered

Table 36. Photovoltaic Module Temperature Sensor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 37. New Products and Potential Entrants

Table 38. Market M&A Activity & Strategy

Table 39. Global Photovoltaic Module Temperature Sensor Sales by Geographic Region (2021-2026) & (K Units)

Table 40. Global Photovoltaic Module Temperature Sensor Sales Market Share Geographic Region (2021-2026)

Table 41. Global Photovoltaic Module Temperature Sensor Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 42. Global Photovoltaic Module Temperature Sensor Revenue Market Share by

Geographic Region (2021-2026)

Table 43. Global Photovoltaic Module Temperature Sensor Sales by Country/Region (2021-2026) & (K Units)

Table 44. Global Photovoltaic Module Temperature Sensor Sales Market Share by Country/Region (2021-2026)

Table 45. Global Photovoltaic Module Temperature Sensor Revenue by Country/Region (2021-2026) & (\$ millions)

Table 46. Global Photovoltaic Module Temperature Sensor Revenue Market Share by Country/Region (2021-2026)

Table 47. Americas Photovoltaic Module Temperature Sensor Sales by Country (2021-2026) & (K Units)

Table 48. Americas Photovoltaic Module Temperature Sensor Sales Market Share by Country (2021-2026)

Table 49. Americas Photovoltaic Module Temperature Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 50. Americas Photovoltaic Module Temperature Sensor Sales by Type (2021-2026) & (K Units)

Table 51. Americas Photovoltaic Module Temperature Sensor Sales by Application (2021-2026) & (K Units)

Table 52. APAC Photovoltaic Module Temperature Sensor Sales by Region (2021-2026) & (K Units)

Table 53. APAC Photovoltaic Module Temperature Sensor Sales Market Share by Region (2021-2026)

Table 54. APAC Photovoltaic Module Temperature Sensor Revenue by Region (2021-2026) & (\$ millions)

Table 55. APAC Photovoltaic Module Temperature Sensor Sales by Type (2021-2026) & (K Units)

Table 56. APAC Photovoltaic Module Temperature Sensor Sales by Application (2021-2026) & (K Units)

Table 57. Europe Photovoltaic Module Temperature Sensor Sales by Country (2021-2026) & (K Units)

Table 58. Europe Photovoltaic Module Temperature Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 59. Europe Photovoltaic Module Temperature Sensor Sales by Type (2021-2026) & (K Units)

Table 60. Europe Photovoltaic Module Temperature Sensor Sales by Application (2021-2026) & (K Units)

Table 61. Middle East & Africa Photovoltaic Module Temperature Sensor Sales by Country (2021-2026) & (K Units)

Table 62. Middle East & Africa Photovoltaic Module Temperature Sensor Revenue Market Share by Country (2021-2026)

Table 63. Middle East & Africa Photovoltaic Module Temperature Sensor Sales by Type (2021-2026) & (K Units)

Table 64. Middle East & Africa Photovoltaic Module Temperature Sensor Sales by Application (2021-2026) & (K Units)

Table 65. Key Market Drivers & Growth Opportunities of Photovoltaic Module Temperature Sensor

Table 66. Key Market Challenges & Risks of Photovoltaic Module Temperature Sensor

Table 67. Key Industry Trends of Photovoltaic Module Temperature Sensor

Table 68. Photovoltaic Module Temperature Sensor Raw Material

Table 69. Key Suppliers of Raw Materials

Table 70. Photovoltaic Module Temperature Sensor Distributors List

Table 71. Photovoltaic Module Temperature Sensor Customer List

Table 72. Global Photovoltaic Module Temperature Sensor Sales Forecast by Region (2027-2032) & (K Units)

Table 73. Global Photovoltaic Module Temperature Sensor Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 74. Americas Photovoltaic Module Temperature Sensor Sales Forecast by Country (2027-2032) & (K Units)

Table 75. Americas Photovoltaic Module Temperature Sensor Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 76. APAC Photovoltaic Module Temperature Sensor Sales Forecast by Region (2027-2032) & (K Units)

Table 77. APAC Photovoltaic Module Temperature Sensor Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Europe Photovoltaic Module Temperature Sensor Sales Forecast by Country (2027-2032) & (K Units)

Table 79. Europe Photovoltaic Module Temperature Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. Middle East & Africa Photovoltaic Module Temperature Sensor Sales Forecast by Country (2027-2032) & (K Units)

Table 81. Middle East & Africa Photovoltaic Module Temperature Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. Global Photovoltaic Module Temperature Sensor Sales Forecast by Type (2027-2032) & (K Units)

Table 83. Global Photovoltaic Module Temperature Sensor Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 84. Global Photovoltaic Module Temperature Sensor Sales Forecast by

Application (2027-2032) & (K Units)

Table 85. Global Photovoltaic Module Temperature Sensor Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 86. IMT Technology Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 87. IMT Technology Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 88. IMT Technology Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 89. IMT Technology Main Business

Table 90. IMT Technology Latest Developments

Table 91. Hukseflux Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 92. Hukseflux Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 93. Hukseflux Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 94. Hukseflux Main Business

Table 95. Hukseflux Latest Developments

Table 96. LAMBRECHT Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 97. LAMBRECHT Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 98. LAMBRECHT Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 99. LAMBRECHT Main Business

Table 100. LAMBRECHT Latest Developments

Table 101. Fronius International GmbH Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 102. Fronius International GmbH Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 103. Fronius International GmbH Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. Fronius International GmbH Main Business

Table 105. Fronius International GmbH Latest Developments

Table 106. Rika Sensor Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 107. Rika Sensor Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 108. Rika Sensor Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. Rika Sensor Main Business

Table 110. Rika Sensor Latest Developments

Table 111. SolarEdge Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 112. SolarEdge Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 113. SolarEdge Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. SolarEdge Main Business

Table 115. SolarEdge Latest Developments

Table 116. TOPOS Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 117. TOPOS Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 118. TOPOS Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 119. TOPOS Main Business

Table 120. TOPOS Latest Developments

Table 121. Riello Solartech Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 122. Riello Solartech Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 123. Riello Solartech Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 124. Riello Solartech Main Business

Table 125. Riello Solartech Latest Developments

Table 126. CIRCUTOR Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 127. CIRCUTOR Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 128. CIRCUTOR Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 129. CIRCUTOR Main Business

Table 130. CIRCUTOR Latest Developments

Table 131. NiuBoL Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 132. NiuBoL Photovoltaic Module Temperature Sensor Product Portfolios and

Specifications

Table 133. NiuBoL Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 134. NiuBoL Main Business

Table 135. NiuBoL Latest Developments

Table 136. Seaward Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 137. Seaward Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 138. Seaward Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 139. Seaward Main Business

Table 140. Seaward Latest Developments

Table 141. SEVEN Sensor Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 142. SEVEN Sensor Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 143. SEVEN Sensor Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 144. SEVEN Sensor Main Business

Table 145. SEVEN Sensor Latest Developments

Table 146. HENGXINJI Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 147. HENGXINJI Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 148. HENGXINJI Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 149. HENGXINJI Main Business

Table 150. HENGXINJI Latest Developments

Table 151. DOWAYTECH Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 152. DOWAYTECH Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 153. DOWAYTECH Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 154. DOWAYTECH Main Business

Table 155. DOWAYTECH Latest Developments

Table 156. Honde Technology Co.,Ltd Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 157. Honde Technology Co.,Ltd Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 158. Honde Technology Co.,Ltd Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 159. Honde Technology Co.,Ltd Main Business

Table 160. Honde Technology Co.,Ltd Latest Developments

Table 161. YANGGUANG Basic Information, Photovoltaic Module Temperature Sensor Manufacturing Base, Sales Area and Its Competitors

Table 162. YANGGUANG Photovoltaic Module Temperature Sensor Product Portfolios and Specifications

Table 163. YANGGUANG Photovoltaic Module Temperature Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 164. YANGGUANG Main Business

Table 165. YANGGUANG Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Photovoltaic Module Temperature Sensor

Figure 2. Photovoltaic Module Temperature Sensor Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Photovoltaic Module Temperature Sensor Sales Growth Rate 2021-2032 (K Units)

Figure 7. Global Photovoltaic Module Temperature Sensor Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Photovoltaic Module Temperature Sensor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Photovoltaic Module Temperature Sensor Sales Market Share by Country/Region (2025)

Figure 10. Photovoltaic Module Temperature Sensor Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Contact Type

Figure 12. Product Picture of Embedded Type

Figure 13. Global Photovoltaic Module Temperature Sensor Sales Market Share by Type in 2026

Figure 14. Global Photovoltaic Module Temperature Sensor Revenue Market Share by Type (2021-2026)

Figure 15. Product Picture of Analog Signal Type

Figure 16. Product Picture of Digital Signal Type

Figure 17. Global Photovoltaic Module Temperature Sensor Sales Market Share by Output Method in 2026

Figure 18. Global Photovoltaic Module Temperature Sensor Revenue Market Share by Output Method (2021-2026)

Figure 19. Product Picture of Backplane Temperature Sensor

Figure 20. Product Picture of Ambient Temperature Sensor

Figure 21. Global Photovoltaic Module Temperature Sensor Sales Market Share by Installation Location in 2026

Figure 22. Global Photovoltaic Module Temperature Sensor Revenue Market Share by Installation Location (2021-2026)

Figure 23. Photovoltaic Module Temperature Sensor Consumed in Desert Power Station

Figure 24. Global Photovoltaic Module Temperature Sensor Market: Desert Power Station (2021-2026) & (K Units)

Figure 25. Photovoltaic Module Temperature Sensor Consumed in Floating Photovoltaic Power Station

Figure 26. Global Photovoltaic Module Temperature Sensor Market: Floating Photovoltaic Power Station (2021-2026) & (K Units)

Figure 27. Photovoltaic Module Temperature Sensor Consumed in Others

Figure 28. Global Photovoltaic Module Temperature Sensor Market: Others (2021-2026) & (K Units)

Figure 29. Global Photovoltaic Module Temperature Sensor Sale Market Share by Application (2025)

Figure 30. Global Photovoltaic Module Temperature Sensor Revenue Market Share by Application in 2025

Figure 31. Photovoltaic Module Temperature Sensor Sales by Company in 2025 (K Units)

Figure 32. Global Photovoltaic Module Temperature Sensor Sales Market Share by Company in 2025

Figure 33. Photovoltaic Module Temperature Sensor Revenue by Company in 2025 (\$ millions)

Figure 34. Global Photovoltaic Module Temperature Sensor Revenue Market Share by Company in 2025

Figure 35. Global Photovoltaic Module Temperature Sensor Sales Market Share by Geographic Region (2021-2026)

Figure 36. Global Photovoltaic Module Temperature Sensor Revenue Market Share by Geographic Region in 2025

Figure 37. Americas Photovoltaic Module Temperature Sensor Sales 2021-2026 (K Units)

Figure 38. Americas Photovoltaic Module Temperature Sensor Revenue 2021-2026 (\$ millions)

Figure 39. APAC Photovoltaic Module Temperature Sensor Sales 2021-2026 (K Units)

Figure 40. APAC Photovoltaic Module Temperature Sensor Revenue 2021-2026 (\$ millions)

Figure 41. Europe Photovoltaic Module Temperature Sensor Sales 2021-2026 (K Units)

Figure 42. Europe Photovoltaic Module Temperature Sensor Revenue 2021-2026 (\$ millions)

Figure 43. Middle East & Africa Photovoltaic Module Temperature Sensor Sales 2021-2026 (K Units)

Figure 44. Middle East & Africa Photovoltaic Module Temperature Sensor Revenue 2021-2026 (\$ millions)

Figure 45. Americas Photovoltaic Module Temperature Sensor Sales Market Share by Country in 2025

Figure 46. Americas Photovoltaic Module Temperature Sensor Revenue Market Share by Country (2021-2026)

Figure 47. Americas Photovoltaic Module Temperature Sensor Sales Market Share by Type (2021-2026)

Figure 48. Americas Photovoltaic Module Temperature Sensor Sales Market Share by Application (2021-2026)

Figure 49. United States Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 50. Canada Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 51. Mexico Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 52. Brazil Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 53. APAC Photovoltaic Module Temperature Sensor Sales Market Share by Region in 2025

Figure 54. APAC Photovoltaic Module Temperature Sensor Revenue Market Share by Region (2021-2026)

Figure 55. APAC Photovoltaic Module Temperature Sensor Sales Market Share by Type (2021-2026)

Figure 56. APAC Photovoltaic Module Temperature Sensor Sales Market Share by Application (2021-2026)

Figure 57. China Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 58. Japan Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 59. South Korea Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 60. Southeast Asia Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 61. India Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 62. Australia Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 63. China Taiwan Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 64. Europe Photovoltaic Module Temperature Sensor Sales Market Share by

Country in 2025

Figure 65. Europe Photovoltaic Module Temperature Sensor Revenue Market Share by Country (2021-2026)

Figure 66. Europe Photovoltaic Module Temperature Sensor Sales Market Share by Type (2021-2026)

Figure 67. Europe Photovoltaic Module Temperature Sensor Sales Market Share by Application (2021-2026)

Figure 68. Germany Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 69. France Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 70. UK Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 71. Italy Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 72. Russia Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 73. Middle East & Africa Photovoltaic Module Temperature Sensor Sales Market Share by Country (2021-2026)

Figure 74. Middle East & Africa Photovoltaic Module Temperature Sensor Sales Market Share by Type (2021-2026)

Figure 75. Middle East & Africa Photovoltaic Module Temperature Sensor Sales Market Share by Application (2021-2026)

Figure 76. Egypt Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 77. South Africa Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 78. Israel Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 79. Turkey Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 80. GCC Countries Photovoltaic Module Temperature Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 81. Manufacturing Cost Structure Analysis of Photovoltaic Module Temperature Sensor in 2026

Figure 82. Manufacturing Process Analysis of Photovoltaic Module Temperature Sensor

Figure 83. Industry Chain Structure of Photovoltaic Module Temperature Sensor

Figure 84. Channels of Distribution

Figure 85. Global Photovoltaic Module Temperature Sensor Sales Market Forecast by

Region (2027-2032)

Figure 86. Global Photovoltaic Module Temperature Sensor Revenue Market Share Forecast by Region (2027-2032)

Figure 87. Global Photovoltaic Module Temperature Sensor Sales Market Share Forecast by Type (2027-2032)

Figure 88. Global Photovoltaic Module Temperature Sensor Revenue Market Share Forecast by Type (2027-2032)

Figure 89. Global Photovoltaic Module Temperature Sensor Sales Market Share Forecast by Application (2027-2032)

Figure 90. Global Photovoltaic Module Temperature Sensor Revenue Market Share Forecast by Application (2027-2032)

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