

# Global Photovoltaic (PV) Monitors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Photovoltaic (PV) Monitors market size is expected to reach \$ 3811 million by 2032, rising at a market growth of 11.6% CAGR during the forecast period (2026-2032).

In 2025, global Photovoltaic (PV) Monitors production reached approximately 1.7 million units, with an average global market price of around US\$ 1000 per unit. Annual production capacity is 2.1 million units. Gross Profit Margin: 39%. Photovoltaic (PV) Monitors are devices and software systems used to measure, track, and analyze the performance of solar photovoltaic systems. The PV monitor industry chain runs from sensor and electronics suppliers, to hardware and software manufacturers, and finally to EPCs, system integrators, and solar plant operators serving residential, commercial, and utility-scale PV systems. PV monitors are essential tools for protecting solar investments—they turn raw generation data into actionable insights, helping operators quickly detect faults, optimize energy yield, and reduce downtime, which directly improves long-term system reliability and returns.

This report studies the global Photovoltaic (PV) Monitors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photovoltaic (PV) Monitors 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 (PV) Monitors that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Photovoltaic (PV) Monitors total production and demand, 2021-2032, (K Units)

Global Photovoltaic (PV) Monitors total production value, 2021-2032, (USD Million)

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

Global Photovoltaic (PV) Monitors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Photovoltaic (PV) Monitors domestic production, consumption, key domestic manufacturers and share

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

Global Photovoltaic (PV) Monitors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Photovoltaic (PV) Monitors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Photovoltaic (PV) Monitors 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 Enphase Energy (NASDAQ: ENPH, USA), SolarEdge Technologies (NASDAQ: SEDG, Israel/USA), SMA Solar Technology AG (SDAX: S92, Germany), Huawei Technologies Co., Ltd. (SHE: 002502 / Private affiliate, China), ABB Ltd. (SIX: ABBN, Switzerland), Schneider Electric SE (EPA: SU, France), Siemens AG (XETRA: SIE, Germany), General Electric Company (NYSE: GE, USA), AlsoEnergy (Private/Parent NASDAQ: STEM, USA), Solar-Log GmbH (Private, Germany), 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 (PV) Monitors 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 (PV) Monitors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Photovoltaic (PV) Monitors Market, Segmentation by Type:

Module-Level Monitoring

String-Level Monitoring

Array-Level Monitoring

Plant/Fleet-Level Monitoring

#### Global Photovoltaic (PV) Monitors Market, Segmentation by Deployment Type:

On-Premise Monitoring Systems

Cloud-Based Monitoring Platforms

## Global Photovoltaic (PV) Monitors Market, Segmentation by Application:

Homeowners

Commercial & Industrial Facility Owners

Utility Companies

Independent Power Producers (IPPs)

EPC Contractors & O&M Providers

## Companies Profiled:

Enphase Energy (NASDAQ: ENPH, USA)

SolarEdge Technologies (NASDAQ: SEDG, Israel/USA)

SMA Solar Technology AG (SDAX: S92, Germany)

Huawei Technologies Co., Ltd. (SHE: 002502 / Private affiliate, China)

ABB Ltd. (SIX: ABBN, Switzerland)

Schneider Electric SE (EPA: SU, France)

Siemens AG (XETRA: SIE, Germany)

General Electric Company (NYSE: GE, USA)

AlsoEnergy (Private/Parent NASDAQ: STEM, USA)

Solar-Log GmbH (Private, Germany)

GreenPowerMonitor (DNV) (Private, Spain/Norway)

Meteocontrol GmbH (Private, Germany)

Power Factors, LLC (Private, USA)

SenseHawk (Private, USA)

GoodWe Technologies Co., Ltd. (SZSE: 688390, China)

Sofar Solar (SZSE: 300460, China)

**Key Questions Answered:**

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

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