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Global String-Level PV Monitoring Device Market Growth 2026-2032

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Abstracts

The global String-Level PV Monitoring Device market size is predicted to grow from US$ 438 million in 2025 to US$ 850 million in 2032; it is expected to grow at a CAGR of 9.9% from 2026 to 2032.

String-Level PV Monitoring Device refers to DC-side electronic hardware that directly measures the electrical output of individual photovoltaic strings and transmits the measured data to a data logger, plant controller or SCADA system.

The market includes standalone measurement boards, integrated string monitoring units, modular master-slave systems and wired, PLC or wireless retrofit devices. Complete combiner boxes, inverter-integrated monitoring, software platforms, module-level power electronics and testing instruments are excluded.

The 2025 benchmark ASP is US$860 per unit, global sales volume is approximately 520.930k units, and the modeled average gross margin is approximately 31%.

The upstream industry chain includes shunt resistors, Hall-effect sensors, magnetic cores, voltage dividers, isolation components, microcontrollers, communication chips, connectors, printed circuit boards and industrial power supplies. The midstream includes circuit design, sensor integration, firmware development, calibration, communication configuration, environmental testing and assembly. The downstream mainly includes ground-mounted, rooftop, floating and other dedicated photovoltaic installations.

The product is evolving from basic current-only measurement toward integrated monitoring of string current, bus voltage, cabinet temperature, surge-protection status

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and disconnector status.

Higher-power and bifacial modules are increasing string operating currents, while utility-scale systems are increasingly designed around 1,500 V DC architectures. Monitoring hardware therefore requires wider current ranges, improved electrical isolation, lower temperature drift and stronger surge resistance. Current products already support configurations of up to 32 strings, 50 A per string and 1,500 V DC.

RS485 and Modbus remain widely used because of their mature integration with plant SCADA systems. PLC reduces the need for separate communication cables, while wireless mesh and LoRaWAN configurations are increasingly used for retrofit projects and sites where communication cabling is difficult.

The expansion of string inverters limits the addressable market for independent monitoring devices because many string inverters already measure their individual DC inputs. Independent devices remain more important in central-inverter plants, combiner-box architectures, older power stations and projects requiring monitoring independent of the inverter.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global String-Level PV Monitoring Device 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 String-Level PV Monitoring Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global String-Level PV Monitoring Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for String-Level PV Monitoring Device and breaks down the

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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 String-Level PV Monitoring Device.

This report presents a comprehensive overview, market shares, and growth opportunities of String-Level PV Monitoring Device market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Current-Only Type

Current and Voltage Type

Multi-Parameter Type

Segmentation by Measurement Capability:

Current-Only Type

Current and Voltage Type

Multi-Parameter Type

Segmentation by Measurement Accuracy:

Standard Accuracy: ±1.0% Class

High Accuracy: Better than ±1.0%

Segmentation by Application:

Ground-Mounted PV Plants

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Rooftop PV Systems

Floating PV Plants

Other Dedicated PV Installations

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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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.

Phoenix Contact GmbH & Co. KG

Weidm?ller Interface GmbH & Co. KG

ABB Ltd

meteocontrol GmbH

Advantic Sistemas y Servicios S.L.

Sumitomo Electric Industries, Ltd.

Masibus Automation and Instrumentation Pvt. Ltd. (Sonepar Group)

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Acrel Electric Co., Ltd.

Zhejiang ETEK Electrical Technology Co., Ltd.

Shanghai Anson Electric Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global String-Level PV Monitoring Device market?

What factors are driving String-Level PV Monitoring Device market growth, globally and by region?

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

How do String-Level PV Monitoring Device market opportunities vary by end market size?

How does String-Level PV Monitoring Device break out by Type, by Application?

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