

Global Solar Cell Quantum Efficiency Measurement System Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Solar Cell Quantum Efficiency Measurement System market size is predicted to grow from US\$ 312 million in 2025 to US\$ 525 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

The Solar Cell Quantum Efficiency Measurement System is a testing instrument used to measure various parameters of solar cells, such as spectral response, quantum efficiency, reflectivity, and short-circuit current density. It is an important testing device for solar cell structural analysis and electrical performance parameter calibration. The solar cell quantum efficiency calibration system mainly includes: a light source, a chopper, a monochromator/filter wheel, a bias light source, a lock-in amplifier, a preamplifier, a control system, and data recording and processing software. The measurement principle of the solar cell quantum efficiency tester is to irradiate the solar cell with adjustable intensity bias light to simulate its different operating states, while simultaneously measuring the short-circuit current generated by the solar cell under monochromatic light irradiation at different wavelengths, thereby obtaining the spectral response of the solar cell. The metrological characteristics of the Solar Cell Quantum Efficiency Measurement System include: monochromatic light spot non-uniformity, bias light spot non-uniformity, bias light spectral matching degree, relative spectral response measurement indication error, spectral response measurement repeatability, short-circuit current measurement indication error, reflectivity measurement indication error, wavelength indication error, spectral bandwidth, temperature control platform indication error, stability, and uniformity. The calibration of the solar cell quantum efficiency measurement system covers a wavelength range of (280~1600) nm, including testing equipment for measuring the quantum efficiency of monocrystalline silicon, polycrystalline silicon, thin-film, and multi-junction solar cells. The solar cell quantum

efficiency measurement system is a professional testing device used in the photovoltaic industry to measure key performance parameters of solar cells, such as quantum efficiency (QE), external quantum efficiency (EQE), internal quantum efficiency (IQE), and spectral response. This tester measures the output current of the solar cell under monochromatic light illumination at different wavelengths, enabling precise evaluation of photoelectric conversion efficiency and the impact of material and structural design on performance. It is an indispensable instrument for R&D institutions, production lines, and quality control. Quantum efficiency test results are crucial for photovoltaic material optimization, process improvement, and product consistency assurance. In 2025, the global production of Solar Cell Quantum Efficiency Measurement Systems is estimated at approximately 6,500 units, with a unit price of approximately US\$49,000 and a gross profit margin of approximately 34%.

With the continued expansion of the global photovoltaic industry and the acceleration of energy transition, the market for solar cell quantum efficiency testers has ushered in a period of rapid development. Photovoltaic technology is increasingly evolving towards higher efficiency and lower costs, and various new solar cell materials such as PERC, TOPCon, heterojunctions, and perovskite/tandem layers are emerging, placing higher demands on performance testing such as quantum efficiency and spectral response. Quantum efficiency testers can accurately reveal the response characteristics of solar cells under different wavelengths of light, providing crucial technical support for R&D institutions and photovoltaic manufacturers to improve efficiency and yield. Global carbon neutrality and renewable energy policies are driving steady growth in photovoltaic installations, thereby driving widespread demand for high-precision testing equipment. Despite the broad market prospects, the solar cell quantum efficiency tester industry also faces multiple challenges. First, the technology for this equipment is highly complex, with key components such as monochromatic light sources, spectral calibration systems, and high-precision current detection relying on imports or high-end suppliers, limiting the competitiveness of some domestic brands. Second, global supply chain instability and changes in trade policies can create uncertainty in equipment prices and delivery cycles. Furthermore, industry customers' demands for equipment performance and service responsiveness are continuously increasing, putting significant pressure on small and medium-sized manufacturers and requiring them to continuously increase R&D investment to maintain their technological advantages. In the downstream market, the demand for solar cell quantum efficiency testers is showing a diversified trend. Research institutions and universities continue to conduct research on new photovoltaic materials and structures, resulting in a stable demand for high-precision quantum efficiency instruments. Photovoltaic cell manufacturers regard quantum efficiency testing as a crucial link in production line quality control and yield

improvement. Under the background of intelligent manufacturing, automated, high-throughput testing equipment is gradually becoming mainstream, driving the upgrade of traditional manual or semi-automatic equipment to intelligent systems. With the continued expansion of global photovoltaic installations and the industrialization of new high-efficiency photovoltaic technologies, the market demand for solar cell quantum efficiency testers will maintain steady growth.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Cell Quantum Efficiency Measurement System 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 Solar Cell Quantum Efficiency Measurement System.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar Cell Quantum Efficiency Measurement System market by product type, application, key players and key regions and countries.

Segmentation by Type:

Wavelength Range 300~1100 nm

Wavelength Range 300~1800 nm

Wavelength Range 300~2500 nm

Others

Segmentation by Light Source:

Single Light Source

Dual Light Source

Segmentation by Sales:

Direct Selling

Distribution

Segmentation by Application:

Colleges and Universities

Graduate School

Enterprise

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 analyzing the company's coverage, product portfolio, its market penetration.

Tau Science

Labsphere

Newport Corporation

JASCO Corporation

Hamamatsu Photonics

Bentham Instruments

Abet Technologies

EnliTech

Zolix

Beijing SOFN Instruments Co., Ltd.

Oriental Spectra Co., Ltd.

BeiJing RayLight Technology Co.,Ltd.

Millennial Solar LLC

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