

Global Solar Cell Tester and Sorter Market Growth 2026-2032

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Abstracts

The global Solar Cell Tester and Sorter market size is predicted to grow from US\$ 1575 million in 2025 to US\$ 2650 million in 2032; it is expected to grow at a CAGR of 8.0% from 2026 to 2032.

A Solar Cell Tester and Sorter is automated, high-speed equipment used in solar panel manufacturing to precisely measure each solar cell's electrical performance (like efficiency, voltage, current) and identify microscopic defects (cracks, contamination) using technologies like PL (Photoluminescence) or EL (Electroluminescence) imaging, then automatically categorizes them into quality grades for optimal module assembly, maximizing panel output and consistency.

The global production of solar cell tester and sorter is projected to reach 4,600 units by 2025, with an average price of US\$350,000 per unit.

The upstream of the solar cell tester and sorter industry chain mainly includes precision light source and flash lamp components, high-speed cameras and sensors, power and acquisition circuits, industrial computers and control chips, precision transmission and positioning components, as well as frames and protective structures. The precision, stability, and consistency of upstream core components directly determine test repeatability, sorting accuracy, and equipment yield. The downstream is the value-concentrating link in the industry, mainly used by solar cell and module manufacturers, covering mass production lines for different technologies such as silicon wafers, PERC, TOPCon, and HJT. It is indispensable for cell factory testing, efficiency grading, power classification, and quality traceability. Downstream customers are mainly large cell manufacturers and integrated photovoltaic companies. Their procurement decisions emphasize testing speed, measurement accuracy, compatibility with production line

cycles, and long-term operational stability. During capacity expansion and technology transition cycles, they tend to choose equipment suppliers with rapid delivery, continuous software algorithm upgrades, and localized service capabilities. As industry concentration increases, leading manufacturers are gaining a larger share of orders, while small and medium-sized cell manufacturers are more focused on cost-effectiveness and equipment compatibility.

The industry's development trend is characterized by simultaneous improvements in testing accuracy and speed, with equipment evolving towards higher speeds, automation, and end-to-end data-driven processes. Testing parameters are expanding from single electrical performance parameters to defect identification and consistency analysis, and are deeply integrated with MES systems to support intelligent manufacturing. Key driving factors include the continued growth of global photovoltaic installations, the demand for production line upgrades due to rapid iterations in battery technology, pressure to improve manufacturing yield and efficiency, and downstream demand for more refined product grading to enhance overall module power. Obstacles include high equipment investment costs, significant fluctuations in customer capital expenditure cycles, and rising costs for equipment compatibility and upgrades due to rapid changes in technology.

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

This Insight Report provides a comprehensive analysis of the global Solar Cell Tester and Sorter 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 Solar Cell Tester and Sorter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar Cell Tester and Sorter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Cell Tester and Sorter 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 Tester and Sorter.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar Cell Tester and Sorter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

- Pure Electrical Testing (IV Only)
- Electroluminescence Detection (EL Only)
- Photoluminescence Detection (PL Only)
- Combined Testing

Segmentation by Battery Type:

- PERC/PERT Cells
- HJT (Heterojunction) Cells
- TOPCon Cells
- IBC/BC Cells
- Multi-Busbar (MBB) Cells
- Perovskite/Thin-Film Cells
- Multi-Junction Tandem Cells
- Flexible/Ultra-Thin Cells

Segmentation by Automation Level:

Manual

Semi-Automatic

Fully Automatic

Segmentation by Application:

Photovoltaic Cell Manufacturing Line

R&D and Pilot Production Line

Third-Party Testing Agency

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.

Wavelabs Solar Metrology Systems

h.a.l.m. elektronik

ASYS Group

Sinton Instruments

Mondragon Assembly

OAI (Optical Associates, Inc.)

ISRA VISION

TT Vision Technologies

Eternalsun Spire

DL Laser

Yoha Laser

KLA

Semilab

BT Imaging

Wuhan Sunic Photoelectricity Equipment Manufacture

Key Questions Addressed in this Report

What is the 10-year outlook for the global Solar Cell Tester and Sorter market?

What factors are driving Solar Cell Tester and Sorter market growth, globally and by region?

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

How do Solar Cell Tester and Sorter market opportunities vary by end market size?

How does Solar Cell Tester and Sorter break out by Type, by Application?

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