

# Global Solar Cell Tester and Sorter Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Solar Cell Tester and Sorter market size was valued at US\$ 1657 million in 2025 and is forecast to a readjusted size of US\$ 2715 million by 2032 with a CAGR of 7.5% during review period.

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.

This report is a detailed and comprehensive analysis for global Solar Cell Tester and Sorter market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Solar Cell Tester and Sorter market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Solar Cell Tester and Sorter market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Solar Cell Tester and Sorter market size and forecasts, by Type and by

Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Solar Cell Tester and Sorter market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Solar Cell Tester and Sorter

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Solar Cell Tester and Sorter market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Solar Cell Tester and Sorter market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Pure Electrical Testing (IV Only)

Electroluminescence Detection (EL Only)

Photoluminescence Detection (PL Only)

Combined Testing

#### Market segment 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

#### Market segment by Automation Level

Manual

Semi-Automatic

Fully Automatic

#### Market segment by Application

Photovoltaic Cell Manufacturing Line

R&D and Pilot Production Line

Third-Party Testing Agency

Others

#### Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Solar Cell Tester and Sorter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solar Cell Tester and Sorter, with price, sales quantity, revenue, and global market share of Solar Cell Tester and Sorter from 2021 to 2026.

Chapter 3, the Solar Cell Tester and Sorter competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solar Cell Tester and Sorter breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Solar Cell Tester and Sorter market forecast, by regions, by Type, and by

Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Solar Cell Tester and Sorter.

Chapter 14 and 15, to describe Solar Cell Tester and Sorter sales channel, distributors, customers, research findings and conclusion.

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