

# Global Solar Photovoltaic Tester Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Solar Photovoltaic Tester market size is expected to reach \$ 1569 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

In 2025, global Solar Photovoltaic Tester production reached approximately 0.16 M Units. The average price is approximately \$5,800. Solar Photovoltaic Tester is a specialized instrument designed for assessing the electrical and safety performance of photovoltaic modules, strings, arrays, or complete PV systems. It is used to measure voltage, current, power, insulation resistance, safety status, and I-V curves under actual irradiance and temperature conditions, thereby verifying whether the system meets its design specifications, installation requirements, and operation and maintenance standards. PV testers are typically employed for installation acceptance, pre-grid connection inspections, fault diagnosis, routine maintenance, and performance evaluation.

## Gross Margin Levels

From an industry structure perspective, solar photovoltaic testing instruments are not standardized, low-cost electronic components. Instead, they represent a sector driven by factors such as measurement accuracy, 1500V high-voltage safety design, software algorithms, calibration capabilities, certification standards, and project delivery. Field high-voltage I-V testing instruments like those from HT, BENNING, and Metrel have already achieved 1000V?1500V and 30A?40A levels. Laboratory/production line solutions from WAVELABS, halm, PASAN, and Ecoprogetti also incorporate requirements for solar simulation, spectral control, automated connectivity, and quality grading. Therefore, the industry as a whole is not a 'low-margin, high-volume' model. Considering product complexity and business models, the gross margin for portable

field testing instruments is approximately 40%-55%, while high-end laboratory/production line testing systems typically range from 45%-65%. The weighted average gross margin for the entire industry is approximately 45%-60%. This is a reasonable inference based on product complexity and small-batch engineering characteristics.

## Industry Drivers

The core driving force of this industry is not just 'PV installation growth,' but rather the fact that the PV industry has moved from a stage of 'whether there is installation' to one of 'full lifecycle measurability, verifiability, traceability, and diagnostics.' IEA PVPS data reveals that global new PV installations reached approximately 553-601 GW in 2024, meaning that testing demand from manufacturing and installation to post-installation operation and maintenance will expand simultaneously. Meanwhile, IEC 62446-1 sets forth clear requirements for delivery documentation, commissioning testing, and periodic inspections of grid-connected PV systems, directly promoting the widespread adoption of on-site acceptance and operation-maintenance testing equipment. On the other hand, 1500V systems, high-power components, and more complex power plant scenarios require testing equipment to upgrade to higher voltage, higher current, and stronger safety protection; while R&D and production lines continue to drive the growth of solar simulators, I-V flash testing, and automated quality testing. In other words, the fastest-growing segment in the future will not necessarily be the lowest-priced handheld equipment, but rather mid-to-high-end PV testing instruments and systems that can simultaneously meet high-voltage safety, rapid diagnostics, standard compliance, and automated connectivity requirements.

This report studies the global Solar Photovoltaic Tester production, demand, key manufacturers, and key regions.

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

## Highlights and key features of the study

Global Solar Photovoltaic Tester total production and demand, 2021-2032, (K Units)

Global Solar Photovoltaic Tester total production value, 2021-2032, (USD Million)

Global Solar Photovoltaic Tester production by region & country, production, value,

CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

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

U.S. VS China: Solar Photovoltaic Tester domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Solar Photovoltaic Tester 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 Desvel, Gsolar Power Co.,LTD, Millennial Solar, EKO Instruments, Kernel System, Shin-ei Engineering, DENKEN, KOPEL, Yamashita Denso, SERIC Ltd., 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 Solar Photovoltaic Tester 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 Solar Photovoltaic Tester Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Solar Photovoltaic Tester Market, Segmentation by Type:

Installation and Acceptance Type

O&M and Diagnostic Type

R&D Laboratory Type

Other

#### Global Solar Photovoltaic Tester Market, Segmentation by Testing Function:

I-V Curve Tester

Multifunctional PV Installation Tester

Solar Simulator Flash Testing System

Others

#### Global Solar Photovoltaic Tester Market, Segmentation by Defect Detection Accuracy:

Entry-Level: Defect Detection ? 0.5 mm

Standard: Defect Detection 0.2?0.5 mm

High-Precision: Defect Detection ? 0.2 mm

Global Solar Photovoltaic Tester Market, Segmentation by Application:

Photovoltaic Manufacturing Industry

Power and Grid Industry

Others

Companies Profiled:

Desvel

Gsolar Power Co.,LTD

Millennial Solar

EKO Instruments

Kernel System

Shin-ei Engineering

DENKEN

KOPEL

Yamashita Denso

SERIC Ltd.

TNE TECH

BENNING

PV-Engineering GmbH

halm elektronik gmbh

WAVELABS Eternal Sun GmbH

HT Instruments

Ecoprogetti

Chauvin Arnoux

Seaward

Sonel

PROVA Instruments

Chroma ATE

Teledyne FLIR

#### Key Questions Answered:

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

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