

Global PV Module Testing and Certification Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PV Module Testing and Certification market size is expected to reach \$ 4753 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

To address the challenges of performance verification, reliability assessment, and varying market entry barriers in the R&D and production of photovoltaic (PV) modules, PV module testing and certification services have emerged. Since their inception in the 1990s, the field of PV product quality assurance systems has developed significantly. Currently, PV module testing and certification encompasses performance testing, safety testing, environmental reliability testing, accelerated aging testing, and international standard certification, as well as regional access certification. It is widely used by PV module manufacturers, power plant developers, engineering designers, and import/export traders, providing authoritative technical services and market access credentials for PV products throughout their entire lifecycle, ensuring compliance with global market access requirements and industry standards.

The PV module testing and certification market is deeply intertwined with the growth of the global PV industry, facing challenges such as technological iteration, standard upgrades, and market competition. However, it also presents tremendous opportunities due to 'dual carbon' targets, emerging markets, and technological innovation. Enterprises need to focus on intelligentization, greening, and internationalization, achieving high-quality development through technological innovation, service upgrades, and policy coordination. This will enhance international competitiveness, promote the green transformation of the photovoltaic industry chain, and contribute to global energy structure adjustment and sustainable development.

This report studies the global PV Module Testing and Certification demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for PV Module Testing and Certification, 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 PV Module Testing and Certification that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PV Module Testing and Certification total market, 2021-2032, (USD Million)

Global PV Module Testing and Certification total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: PV Module Testing and Certification total market, key domestic companies, and share, (USD Million)

Global PV Module Testing and Certification revenue by player, revenue and market share 2021-2026, (USD Million)

Global PV Module Testing and Certification total market by Type, CAGR, 2021-2032, (USD Million)

Global PV Module Testing and Certification total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global PV Module Testing and Certification market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include T?V Rheinland, T?V S?D, SGS, UL Solutions, Intertek, DEKRA, Kiwa, Bureau Veritas, VDE Renewables, SolarPTL, 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 PV Module Testing and Certification market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 PV Module Testing and Certification Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PV Module Testing and Certification Market, Segmentation by Type:

Power Testing

Temperature Testing

Load Testing

Persistence Testing

Electroluminescence Testing

Infrared Testing

Other

Global PV Module Testing and Certification Market, Segmentation by Service Form:

Data Service

Functional Service

Global PV Module Testing and Certification Market, Segmentation by Test Type:

Performance Testing

Security Testing

Global PV Module Testing and Certification Market, Segmentation by Application:

Crystal

Thin Film

Building Integrated Photovoltaics (BIPV)

Concentrated Photovoltaics

Other

Companies Profiled:

T?V Rheinland

T?V S?D

SGS

UL Solutions

Intertek

DEKRA

Kiwa

Bureau Veritas

VDE Renewables

SolarPTL

JET

SIRIM QAS

Enertis Applus+

OCA Global

DNV

PVEL

Fraunhofer ISE

CENER

Key Questions Answered

1. How big is the global PV Module Testing and Certification market?
2. What is the demand of the global PV Module Testing and Certification market?
3. What is the year over year growth of the global PV Module Testing and Certification market?
4. What is the total value of the global PV Module Testing and Certification market?
5. Who are the Major Players in the global PV Module Testing and Certification market?

6. What are the growth factors driving the market demand?

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