

Global Solar Photovoltaic Material Testing Services Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar Photovoltaic Material Testing Services market size is expected to reach \$ 900 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

To address the issues of difficulty in accurately predicting the anti-aging ability of solar photovoltaic materials during long-term outdoor service, inconsistent evaluation standards for photoelectric conversion efficiency degradation, and poor correlation between traditional accelerated aging tests and actual operating conditions, solar photovoltaic material testing services have emerged. Since the explosive growth of global photovoltaic (PV) installed capacity in the early 21st century and the driving force of dual-carbon goals for the high-quality development of the new energy industry, the field of PV material testing and reliability evaluation has made significant progress. Currently, solar PV material testing services have evolved into a comprehensive service encompassing environmental aging testing, photoelectric performance testing, mechanical performance testing, and material characteristic analysis. These services are widely used in PV module manufacturers for raw material access verification, power plant owners for full lifecycle quality control, R&D institutions for new material characterization, and third-party testing and certification. They provide professional technical services capable of accurately assessing material weather resistance and power generation stability, ensuring the efficient and reliable operation of PV systems for over 25 years.

This report studies the global Solar Photovoltaic Material Testing Services demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solar

Photovoltaic Material Testing Services, 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 Material Testing Services that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solar Photovoltaic Material Testing Services total market, 2021-2032, (USD Million)

Global Solar Photovoltaic Material Testing Services total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Solar Photovoltaic Material Testing Services total market, key domestic companies, and share, (USD Million)

Global Solar Photovoltaic Material Testing Services revenue by player, revenue and market share 2021-2026, (USD Million)

Global Solar Photovoltaic Material Testing Services total market by Type, CAGR, 2021-2032, (USD Million)

Global Solar Photovoltaic Material Testing Services total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Solar Photovoltaic Material Testing Services 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, Intertek, SGS, UL Solutions, Kiwa, VDE, Zhongke Testing Technology Services (Guangzhou) Co., Ltd., Ccic Southern Testing Co., Ltd., Vkan Certification & Testing Co., Ltd., RETC, 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 Material Testing Services 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 Solar Photovoltaic Material Testing Services Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Photovoltaic Material Testing Services Market, Segmentation by Type:

Photoelectric Performance Testing

Reliability Testing

Mechanical Performance Testing

Material Composition Analysis

Global Solar Photovoltaic Material Testing Services Market, Segmentation by Test Methods:

Electrical Performance Testing

Material Physicochemical Analysis

Global Solar Photovoltaic Material Testing Services Market, Segmentation by Application:

Photovoltaic Manufacturing Industry Chain

New Energy Power Generation Industry

Power Grid Industry

Other

Companies Profiled:

T?V Rheinland

Intertek

SGS

UL Solutions

Kiwa

VDE

Zhongke Testing Technology Services (Guangzhou) Co., Ltd.

Ccic Southern Testing Co., Ltd.

Vkan Certification & Testing Co., Ltd.

RETC

Bureau Veritas

DEKRA

Fraunhofer ISE

CSA Group

China General Certification Center

Centre Testing International Group Co., Ltd.

DNV

Key Questions Answered

1. How big is the global Solar Photovoltaic Material Testing Services market?
2. What is the demand of the global Solar Photovoltaic Material Testing Services market?
3. What is the year over year growth of the global Solar Photovoltaic Material Testing Services market?
4. What is the total value of the global Solar Photovoltaic Material Testing Services market?
5. Who are the Major Players in the global Solar Photovoltaic Material Testing Services market?
6. What are the growth factors driving the market demand?

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