

Global Solar Photovoltaic Material Testing Services Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Solar Photovoltaic Material Testing Services market size was valued at US\$ 596 million in 2025 and is forecast to a readjusted size of US\$ 900 million by 2032 with a CAGR of 6.0% during review period.

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 is a detailed and comprehensive analysis for global Solar Photovoltaic Material Testing Services market. Both quantitative and qualitative analyses are

presented by company, 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 Photovoltaic Material Testing Services market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Solar Photovoltaic Material Testing Services market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Solar Photovoltaic Material Testing Services market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Solar Photovoltaic Material Testing Services market shares of main players, in revenue (\$ Million), 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 Photovoltaic Material Testing Services

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 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.

Market segmentation

Solar Photovoltaic Material Testing Services 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Photoelectric Performance Testing

Reliability Testing

Mechanical Performance Testing

Material Composition Analysis

Market segment by Test Methods

Electrical Performance Testing

Material Physicochemical Analysis

Market segment by Application

Photovoltaic Manufacturing Industry Chain

New Energy Power Generation Industry

Power Grid Industry

Other

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Solar Photovoltaic Material Testing Services product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Solar Photovoltaic Material Testing Services, with revenue, gross margin, and global market share of Solar Photovoltaic Material Testing Services from 2021 to 2026.

Chapter 3, the Solar Photovoltaic Material Testing Services competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Solar Photovoltaic Material Testing Services market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Solar Photovoltaic Material Testing Services.

Chapter 13, to describe Solar Photovoltaic Material Testing Services research findings and conclusion.

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