

Global Solar Photovoltaic Material Testing Services Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Solar Photovoltaic Material Testing Services market size is predicted to grow from US\$ 567 million in 2025 to US\$ 874 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 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.

United States market for Solar Photovoltaic Material Testing Services is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Solar Photovoltaic Material Testing Services is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Solar Photovoltaic Material Testing Services is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Solar Photovoltaic Material Testing Services players cover T?V Rheinland, Intertek, SGS, UL Solutions, Kiwa, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the ?Solar Photovoltaic Material Testing Services Industry Forecast? looks at past sales and reviews total world Solar Photovoltaic Material Testing Services sales in 2025, providing a comprehensive analysis by region and market sector of projected Solar Photovoltaic Material Testing Services sales for 2026 through 2032. With Solar Photovoltaic Material Testing Services sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solar Photovoltaic Material Testing Services industry.

This Insight Report provides a comprehensive analysis of the global Solar Photovoltaic Material Testing Services landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Solar Photovoltaic Material Testing Services portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Solar Photovoltaic Material Testing Services market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Photovoltaic Material Testing Services and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Solar Photovoltaic Material Testing Services.

This report presents a comprehensive overview, market shares, and growth

opportunities of Solar Photovoltaic Material Testing Services market by product type, application, key players and key regions and countries.

Segmentation by Type:

Photoelectric Performance Testing

Reliability Testing

Mechanical Performance Testing

Material Composition Analysis

Segmentation by Test Methods:

Electrical Performance Testing

Material Physicochemical Analysis

Segmentation by Application:

Photovoltaic Manufacturing Industry Chain

New Energy Power Generation Industry

Power Grid Industry

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

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