

# Global Photovoltaic Module Testing and Certification Market Size Study & Forecast, by Types (Photovoltaic Module Testing, Photovoltaic Module Certification) and Application (Monocrystalline Module, Polycrystalline Module, Others) and Regional Forecasts 2025-2035

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## Abstracts

The Global Photovoltaic Module Testing and Certification Market is valued at approximately USD 0.06 billion in 2024 and is projected to advance at a steady CAGR of 4.20% over the forecast period of 2025–2035, with historical data traced across 2023 and 2024 and 2024 established as the base year for estimation. Photovoltaic module testing and certification services play a pivotal role in validating product performance, safety, durability, and compliance with international standards before modules are deployed into real-world solar installations. As solar energy scales up from niche adoption to grid-critical infrastructure, these services are being leaned on to de-risk investments, protect system integrity, and uphold long-term energy yield expectations across global markets.

Market growth is being powered by the rapid expansion of solar capacity worldwide and the increasingly stringent regulatory frameworks governing renewable energy assets. As manufacturers race to commercialize higher-efficiency modules and novel materials, testing and certification bodies are being called upon to keep pace with evolving standards and performance benchmarks. Moreover, financiers, utilities, and developers are doubling down on third-party certification to safeguard asset bankability and insurance eligibility. While the market remains relatively compact in absolute value terms, its strategic importance within the solar value chain continues to be dialed up, especially as module lifespans stretch beyond 25 years and operational reliability

becomes non-negotiable.

The detailed segments and sub-segments included in the report are:

By Types:

Photovoltaic Module Testing

Photovoltaic Module Certification

By Application:

Monocrystalline Module

Polycrystalline Module

Others

Among applications, monocrystalline modules are expected to dominate the market over the forecast period, commanding the largest share of testing and certification demand. Their superior efficiency ratings, sleek form factor, and growing adoption in both utility-scale and rooftop installations have pushed manufacturers to subject these modules to rigorous validation protocols. As monocrystalline technology increasingly becomes the industry benchmark, certification requirements around performance degradation, thermal behavior, and long-term reliability are intensifying, thereby amplifying demand for specialized testing services. Polycrystalline and other module types continue to hold relevance, particularly in cost-sensitive markets, but they trail monocrystalline modules in overall certification volumes.

From a revenue perspective, photovoltaic module certification currently leads the market, accounting for the lion's share of service revenues. Certification represents the final and most commercially critical checkpoint before market entry, making it indispensable for manufacturers seeking global market access. Testing services, while foundational, are often bundled into broader certification programs, which elevates the revenue contribution of certification-focused offerings. As international trade in solar modules expands and cross-border regulatory alignment tightens, certification services are increasingly being positioned not just as compliance tools, but as strategic enablers

of global scale.

Geographically, North America maintains a strong foothold in the market, supported by mature solar deployment, robust safety standards, and a highly structured certification ecosystem. Europe follows closely, driven by rigorous IEC compliance requirements and a strong emphasis on quality assurance across renewable assets. Asia Pacific is anticipated to witness the fastest growth during the forecast period, as China, India, and Southeast Asian countries rapidly expand solar manufacturing and installation capacity. The region's ascent as a global solar production hub is translating into heightened demand for internationally recognized testing and certification services to support exports and domestic deployments alike.

Major market players included in this report are:

TUV Rheinland

UL Solutions

Bureau Veritas

SGS S.A.

Intertek Group plc

TUV SUD

CSA Group

DNV

DEKRA SE

PVEL (PV Evolution Labs)

Kiwa Group

VDE Testing and Certification Institute

Nemko Group

Applus+ Laboratories

Eurofins Scientific

## Global Photovoltaic Module Testing and Certification Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define the market size of different segments and regions in recent years and to forecast their trajectory over the coming decade. The report weaves together qualitative insights and quantitative metrics to illuminate critical growth drivers, operational challenges, and emerging opportunities within the Global Photovoltaic Module Testing and Certification Market. It further maps competitive dynamics and service portfolios of key players, enabling stakeholders to position themselves strategically in a market that quietly underpins the credibility and bankability of the global solar industry.

### Key Takeaways:

Market estimates and forecasts spanning 2025 to 2035

Annualized revenue analysis across global and regional markets

Country-level assessment of major solar economies

Competitive landscape profiling of leading testing and certification providers

Strategic evaluation of business models and growth pathways

Analysis of the market's competitive structure

Comprehensive demand-side and supply-side insights

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