

# Global Grid-connected Photovoltaic Inverter Test Solution 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 Grid-connected Photovoltaic Inverter Test Solution market size was valued at US\$ 137 million in 2025 and is forecast to a readjusted size of US\$ 194 million by 2032 with a CAGR of 5.4% during review period.

Grid-connected Photovoltaic Inverter Test Solution refers to third-party verification activities that validate inverter safety, grid-interconnection performance, power-quality behavior, protection functions, and interoperability. In practice, it bundles type testing, grid-code compliance checks, safety evaluation (e.g., IEC 62109 series), and region-specific certification pathways—such as requirements aligned with IEEE 1547 for DER interconnection and, in North America, UL 1741-based certification—resulting in test reports and certificates that enable market access. The price of photovoltaic grid-connected inverter testing typically ranges from about US\$10,000 to US\$30,000 per test, depending on the test scope, the number of applicable grid codes, and whether safety, EMC, and re-testing are included.

Growth is fueled by expanding global PV deployment and inverter shipments, which increases the cadence of new platform launches, firmware revisions, and regional market-entry programs (e.g., 2024 global shipments around 589 GWac). At the same time, grids increasingly expect DERs to provide more advanced behaviors, pushing testing toward deeper functional and interoperability verification. Finally, the coexistence of multiple standards and certification pathways (IEC safety plus IEEE/UL-related interconnection certification in certain regions) encourages manufacturers to rely on scaled third-party labs to shorten time-to-market, sustaining demand for testing services.

This report is a detailed and comprehensive analysis for global Grid-connected Photovoltaic Inverter Test Solution 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 Grid-connected Photovoltaic Inverter Test Solution market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Grid-connected Photovoltaic Inverter Test Solution market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Grid-connected Photovoltaic Inverter Test Solution market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Grid-connected Photovoltaic Inverter Test Solution 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 Grid-connected Photovoltaic Inverter Test Solution
- 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 Grid-connected Photovoltaic Inverter Test Solution 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 TÜV Rheinland, TÜV SÜD, Intertek Group plc, CSA Group, UL Solutions, Bureau Veritas, DNV, Quanta Technology, AIT Austrian Institute of Technology, China Certification & Inspection Group (CCIC-SET), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market segmentation

Grid-connected Photovoltaic Inverter Test Solution 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

Certification-Oriented Testing

R&D Testing

Others

### Market segment by Test Target

Utility-Scale Central Inverter

String Inverter

Microinverter

### Market segment by Test Content

IEC 62109 Series

IEEE 1547 Series

Others

### Market segment by Application

Inverter Manufacturers

Utility/Grid Operators

Others

Market segment by players, this report covers

T?V Rheinland

T?V S?D

Intertek Group plc

CSA Group

UL Solutions

Bureau Veritas

DNV

Quanta Technology

AIT Austrian Institute of Technology

China Certification & Inspection Group (CCIC-SET)

China Quality Certification Centre (CQC)

URS Labs

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 Grid-connected Photovoltaic Inverter Test Solution product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Grid-connected Photovoltaic Inverter Test Solution, with revenue, gross margin, and global market share of Grid-connected Photovoltaic Inverter Test Solution from 2021 to 2026.

Chapter 3, the Grid-connected Photovoltaic Inverter Test Solution 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 Grid-connected Photovoltaic Inverter Test Solution 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 Grid-connected Photovoltaic Inverter Test Solution.

Chapter 13, to describe Grid-connected Photovoltaic Inverter Test Solution research findings and conclusion.

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