

Global Grid-connected Photovoltaic Inverter Test Solution Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Grid-connected Photovoltaic Inverter Test Solution market size is predicted to grow from US\$ 130 million in 2025 to US\$ 188 million in 2032; it is expected to grow at a CAGR of 5.7% from 2026 to 2032.

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.

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

This Insight Report provides a comprehensive analysis of the global Grid-connected Photovoltaic Inverter Test Solution 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 Grid-connected Photovoltaic Inverter Test Solution portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Grid-connected Photovoltaic Inverter Test Solution market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Grid-connected Photovoltaic Inverter Test Solution 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 Grid-connected Photovoltaic Inverter Test Solution.

This report presents a comprehensive overview, market shares, and growth opportunities of Grid-connected Photovoltaic Inverter Test Solution market by product type, application, key players and key regions and countries.

Segmentation by Type:

Certification-Oriented Testing

R&D Testing

Others

Segmentation by Test Target:

Utility-Scale Central Inverter

String Inverter

Microinverter

Segmentation by Test Content:

IEC 62109 Series

IEEE 1547 Series

Others

Segmentation by Application:

Inverter Manufacturers

Utility/Grid Operators

Others

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

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

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