

Global Photovoltaic EL Tester Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Photovoltaic EL Tester market size was valued at US\$ 232 million in 2025 and is forecast to a readjusted size of US\$ 466 million by 2032 with a CAGR of 10.2% during review period.

In 2025, global Photovoltaic EL Tester production reached approximately 12.23 K Units, with an average global market price of around 18425 USD per Unit.

A Photovoltaic EL Tester is a specialized photovoltaic inspection device that uses electroluminescence imaging to detect internal defects in solar cells, PV modules, or installed PV arrays. In a typical testing process, a forward current is applied to the solar cell, module, or string, causing silicon-based cells to emit near-infrared electroluminescence signals. These signals are captured by high-sensitivity CCD, CMOS, InGaAs, or SWIR cameras and then analyzed through image processing or AI-based defect recognition software to identify hidden defects such as microcracks, broken cells, interrupted fingers, poor soldering, dark cells, low-efficiency cells, shunts, PID, and localized failures that are difficult to detect visually.

The upstream core raw materials and components of Photovoltaic EL Tester mainly include high-sensitivity cameras, image sensors and detectors, optical lenses and filters, industrial PCs and GPUs, and motion control and automation systems. Typical raw material suppliers include Hamamatsu Photonics, Teledyne, Sony Semiconductor Solutions, Edmund Optics, Thorlabs, SCHOTT, Advantech, ADLINK, Vecow, Intel, NVIDIA, Siemens, Mitsubishi Electric, Omron, Yaskawa, etc. The downstream applications are mainly with photovoltaic cell and photovoltaic module manufacturers, and typical users include LONGi, JinkoSolar, Trina Solar, JA Solar, Canadian Solar,

Risen Energy, Astronergy, Tongwei, Talesun, First Solar, Hanwha Qcells, REC Solar, etc.

The single-line capacity of Photovoltaic EL Tester varies greatly depending on the product type, manufacturing process, and degree of automation of the production line. The industry gross profit margin is usually in the range of 25%-40%.

Photovoltaic EL Testers are critical inspection devices used in PV manufacturing and solar plant operation to identify internal defects in solar cells and modules. Their core advantage lies in electroluminescence imaging, which converts hidden defects such as microcracks, broken cells, interrupted fingers, poor soldering, dark cells, low-efficiency cells, shunts, PID, and localized failures into visible images, while image processing or AI algorithms further support defect recognition and quality traceability. Compared with conventional visual inspection, thermal imaging, or standalone electrical performance testing, EL inspection can detect structural risks inside PV modules at an earlier stage, helping manufacturers reduce quality disputes, and helping plant owners avoid post-installation power losses and inaccurate O&M judgments. It addresses key industry pain points related to thinner and larger high-efficiency modules, transportation and installation damage, quality consistency, and the identification of hidden defects in operating PV assets. As PV module technologies continue to evolve, EL testers are no longer merely quality-control instruments, but are becoming important tools for ensuring module reliability, manufacturing yield, and solar asset quality.

From an industry perspective, the global photovoltaic EL tester market is developing along two major tracks: inline inspection for PV manufacturing and field inspection for solar plant operation. China, as the world's largest PV module manufacturing base, has the most concentrated demand for inline EL systems, IV+EL integrated testers, EL+VI inspection systems, and automated production-line inspection equipment. Chinese suppliers are becoming increasingly competitive through cost efficiency, fast delivery, production-line adaptability, and local service capability. Europe has stronger accumulation in high-end imaging, laboratory testing, third-party quality assessment, and specialized inspection systems, with companies in Germany, Italy, and Spain representing important players in mobile EL, inline EL, and high-precision inspection equipment. Japan places greater emphasis on reliability and field inspection, with some suppliers showing technical strength in daylight EL/PL and installed-module inspection. North America is mainly driven by laboratory R&D, module certification, solar asset evaluation, and O&M inspection needs. In terms of competition, overseas specialist manufacturers still hold advantages in high-end imaging, algorithm experience, and system stability, while Chinese suppliers are catching up rapidly by leveraging a

complete PV manufacturing ecosystem, fast product iteration, and broad application scenarios. The competitive focus is shifting from simply capturing EL images to inspection speed, automatic defect-recognition accuracy, production-line integration, field adaptability, and data management capability.

Looking ahead, the growth potential of photovoltaic EL testers will be mainly supported by ongoing PV module capacity upgrades, rapid evolution of high-efficiency cell technologies, rising microcrack risks from thinner and larger modules, and increasing demand for defect visualization, asset assessment, and warranty traceability as operating solar plants enter a more refined O&M stage. With the wider adoption of TOPCon, HJT, BC, and other high-efficiency module technologies, manufacturers will require more advanced inline defect recognition, AI-based image interpretation, and full-process quality traceability. At the same time, portable EL testers, string-level EL systems, UAV-based EL/PL inspection, and daylight inspection technologies are expected to open broader application opportunities in plant acceptance, O&M inspection, insurance claims, and asset transactions. Over the long term, EL testing equipment with high-sensitivity imaging, stable current excitation, automation integration, AI defect recognition, and inspection data management capabilities will capture greater value within the PV value chain and become an important equipment category for improving module reliability, plant generation efficiency, and long-term solar asset returns.

This report is a detailed and comprehensive analysis for global Photovoltaic EL Tester market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Photovoltaic EL Tester market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Photovoltaic EL Tester market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Photovoltaic EL Tester market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Photovoltaic EL Tester market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 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 Photovoltaic EL Tester

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 Photovoltaic EL Tester market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MJB Solutions GmbH, Ecoprogetti S.r.l., Mondragon Assembly S.Coop., NPC Incorporated, Greateyes GmbH, BT Imaging Pty Ltd, BrightSpot Automation, SC-SOLAR, Horad, Shanghai Hi-Show Photovoltaic Science And Technology, etc.

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

Market Segmentation

Photovoltaic EL Tester 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Inline Type

Offline Type

Market segment by Automation Level

Manual Type

Semi-automatic Type

Fully Automatic Type

Market segment by Technology

Nighttime Field EL Testing

Daylight EL Testing

Market segment by Application

Photovoltaic Cell Production

Photovoltaic Module Production

Others

Major players covered

MBJ Solutions GmbH

Ecoprogetti S.r.l.

Mondragon Assembly S.Coop.

NPC Incorporated

Greateyes GmbH

BT Imaging Pty Ltd

BrightSpot Automation

SC-SOLAR

Horad

Shanghai Hi-Show Photovoltaic Science And Technology

Suzhou LaiLx New Energy Technology

Millennial Solar

CHNSpec

Nanjing Vision Potential Intelligent Technology

Suzhou Zhisheng Technology

ChinTiyang New Energy (Hubei)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Photovoltaic EL Tester product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Photovoltaic EL Tester, with price, sales quantity, revenue, and global market share of Photovoltaic EL Tester from 2021 to 2026.

Chapter 3, the Photovoltaic EL Tester competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Photovoltaic EL Tester breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Photovoltaic EL Tester market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Photovoltaic EL Tester.

Chapter 14 and 15, to describe Photovoltaic EL Tester sales channel, distributors, customers, research findings and conclusion.

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