

Global Inverted Perovskite Solar Cells Market Growth 2026-2032

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Abstracts

The global Inverted Perovskite Solar Cells market size is predicted to grow from US\$ 371 million in 2025 to US\$ 3461 million in 2032; it is expected to grow at a CAGR of 37.8% from 2026 to 2032.

In 2025, global Inverted Perovskite Solar Cells production reached approximately 540MW, with an average global market price of around US\$700 per kW.

Inverted perovskite solar cells are thin-film photovoltaic devices based on a p-i-n architecture (hole transport layer / perovskite absorber / electron transport layer), which is the reverse of the conventional n-i-p structure. These devices are typically fabricated using low-temperature solution processes, offering advantages such as reduced interfacial defect density, minimal hysteresis, and improved operational stability. The inverted structure enables better energy level alignment and efficient charge transport, achieving high efficiency and enhanced durability. With laboratory efficiencies exceeding 25%, inverted perovskite solar cells are highly promising for flexible electronics, tandem solar cells, and large-scale manufacturing.

The upstream of inverted perovskite solar cells includes suppliers of perovskite precursor materials (lead/tin halides), hole transport materials (such as PTAA and PEDOT:PSS), electron transport materials (e.g., PCBM, C60), transparent conductive electrodes (ITO/FTO), and encapsulation materials. Representative companies include Merck (functional materials), Solvay (advanced polymers), and 3M (encapsulation films). The midstream consists of cell and module manufacturers focusing on solution deposition, interface engineering, and large-area fabrication, including Oxford Photovoltaics, Microquanta Semiconductor, and Saule Technologies. Downstream applications include utility-scale solar power, distributed photovoltaics, building-

integrated photovoltaics (BIPV), and flexible energy systems, with companies such as LONGi Green Energy and JinkoSolar, forming a complete value chain from materials to energy deployment.

United States market for Inverted Perovskite Solar Cells 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 Inverted Perovskite Solar Cells 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 Inverted Perovskite Solar Cells is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Inverted Perovskite Solar Cells players cover Oxford Photovoltaics, Saule Technologies, Swift Solar, Cubic PV, Hanwha Qcells, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Inverted Perovskite Solar Cells 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 Inverted Perovskite Solar

Cells.

This report presents a comprehensive overview, market shares, and growth opportunities of Inverted Perovskite Solar Cells market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Rigidity

Flexibility

Segmentation by Battery Pack:

Single Junction Cell

Stacked Cell

Segmentation by Application:

Photovoltaic Power Station

Architecture

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 analysing the company's coverage, product portfolio, its market penetration.

Oxford Photovoltaics

Saule Technologies

Swift Solar

Cubic PV

Hanwha Qcells

Enecoat Technologies

First Solar

Caelux

Tandem PV

91 PVK Solar

Microquanta

Renshine Solar

GCL Optoelectronic Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Inverted Perovskite Solar Cells market?

What factors are driving Inverted Perovskite Solar Cells market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Inverted Perovskite Solar Cells market opportunities vary by end market size?

How does Inverted Perovskite Solar Cells break out by Type, by Application?

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