

Global All-perovskite Tandem Solar Cells Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G76B7E84B398EN.html>

Date: June 2026

Pages: 156

Price: US\$ 3,480.00 (Single User License)

ID: G76B7E84B398EN

Abstracts

According to our (Global Info Research) latest study, the global All-perovskite Tandem Solar Cells market size was valued at US\$ 244 million in 2025 and is forecast to a readjusted size of US\$ 2255 million by 2032 with a CAGR of 37.3% during review period.

In 2025, global All-perovskite Tandem Solar Cells production reached approximately 590MW, with an average global market price of around US\$400 per kW.

All-perovskite tandem solar cells are advanced photovoltaic devices composed of multiple stacked perovskite absorber layers with different bandgaps, enabling efficient utilization of the solar spectrum. Typically structured as a tandem (multi-junction) configuration, the top cell absorbs high-energy photons while the bottom cell captures lower-energy photons, thereby surpassing the efficiency limits of single-junction devices. These cells offer advantages such as high efficiency potential, low-cost manufacturing, lightweight structures, and flexibility. Laboratory efficiencies have approached 30%, although challenges remain in long-term stability and large-scale commercialization.

The upstream of the all-perovskite tandem solar cell industry includes suppliers of perovskite precursor materials (such as lead/tin halides), conductive glass (ITO/FTO), charge transport materials (e.g., TiO₂, Spiro-OMeTAD), encapsulation materials, and solvents. The midstream consists of cell and module manufacturers focusing on thin-film deposition (solution processing or vacuum deposition), interface engineering, and tandem structure design, with key players such as Oxford Photovoltaics, Saule Technologies, and Microquanta Semiconductor. Downstream applications include utility-

scale solar power generation, distributed energy systems, building-integrated photovoltaics (BIPV), and flexible energy solutions, with companies like LONGi Green Energy and JinkoSolar. The industry forms a value chain from functional materials to device manufacturing and energy applications.

This report is a detailed and comprehensive analysis for global All-perovskite Tandem Solar Cells 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 All-perovskite Tandem Solar Cells market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global All-perovskite Tandem Solar Cells market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global All-perovskite Tandem Solar Cells market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global All-perovskite Tandem Solar Cells market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 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 All-perovskite Tandem Solar Cells

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 All-perovskite Tandem Solar Cells 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 Oxford Photovoltaics, Saule Technologies, Swift Solar, Cubic PV, Hanwha Qcells, Enecoat Technologies, First Solar, Caelux, Tandem PV, Microquanta, etc.

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

Market Segmentation

All-perovskite Tandem Solar Cells 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

2-terminal

4-terminal

Market segment by Form

Rigidity

Flexibility

Market segment by Absorbing Layer Thickness

300 ? 600 nm

600 ? 1000 nm

Market segment by Application

Photovoltaics

Power Plants

Rail Transit

Others

Major players covered

Oxford Photovoltaics

Saule Technologies

Swift Solar

Cubic PV

Hanwha Qcells

Enecoat Technologies

First Solar

Caelux

Tandem PV

Microquanta

Renshine Solar

SC Solar

GCL Optoelectronic Materials

HIKING PV

Dazheng Micro Nano

LONGi Green Energy

Astronergy

Jinkosolar

Huasun Energy

Tongwei Co

SolaEon Technology

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 All-perovskite Tandem Solar Cells product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of All-perovskite Tandem Solar Cells, with price, sales quantity, revenue, and global market share of All-perovskite Tandem Solar Cells from 2021 to 2026.

Chapter 3, the All-perovskite Tandem Solar Cells competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the All-perovskite Tandem Solar Cells 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 All-perovskite Tandem Solar Cells 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 All-perovskite Tandem Solar Cells.

Chapter 14 and 15, to describe All-perovskite Tandem Solar Cells sales channel, distributors, customers, research findings and conclusion.

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