

Global Single Junction Perovskite Cell Market Growth 2026-2032

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Abstracts

The global Single Junction Perovskite Cell market size is predicted to grow from US\$ 626 million in 2025 to US\$ 7042 million in 2032; it is expected to grow at a CAGR of 42.1% from 2026 to 2032.

A single-junction perovskite cell is a type of solar cell that uses perovskite material as the light-absorbing layer. Perovskite is a material with excellent photoelectric conversion performance, typically composed of metal halides (such as lead and tin) and halogens (such as chlorine, bromine, and iodine). A single junction means the cell has only one photoelectric conversion layer; this layer of perovskite material effectively absorbs light energy and converts it into electrical energy. When sunlight shines on the perovskite material, it absorbs photons and generates electron-hole pairs. These electrons and holes flow to the electrodes through the transport layer in the cell, thus generating current. Perovskite materials have a high light absorption coefficient and a broad spectral response, enabling them to absorb a large amount of light energy in a relatively thin layer. This makes perovskite solar cells highly promising in terms of photoelectric conversion efficiency and material utilization. In 2024, global production of single-junction perovskite cells reached 1.569 gigawatts, with an average selling price of \$0.29/watt. Gross margin ranged from 29.8% to 33.74%. Upstream raw materials include metal halides, precursors, evaporation equipment, and printing equipment. Downstream applications include photovoltaic power plants, distributed photovoltaic power generation systems, and building-integrated photovoltaic systems. Production capacity: Hubei Wandu Solar Energy Co., Ltd. has officially settled in Fuyang with a 3GW perovskite photovoltaic cell module production project. The company will simultaneously plan a 30GW perovskite cell module project, a 10,000-ton-per-year perovskite material production project, and a perovskite module equipment project. Case study: Quzhou High-speed Railway New City Phase II rooftop power station. In

Quzhou High-speed Railway New City Phase II, to echo the overall architectural design, light gray photovoltaic modules were laid on the rooftop, balancing aesthetics and photovoltaic power generation. Installed capacity: 444kW.

Perovskite solar cells, as one of the 'third-generation photovoltaic technologies,' have received widespread attention in recent years due to their high photoelectric conversion efficiency, potential low-cost manufacturing, and flexible manufacturing processes (thin-film/printing/low-temperature preparation). Existing research shows that the efficiency of small-area perovskite devices has reached ~26-27% or even higher. Compared to traditional crystalline silicon solar cells, perovskite solar cells offer significant cost and structural advantages—thin-film processing, low-temperature technology, and low material consumption. Theoretically, they have the potential to reduce the manufacturing cost of photovoltaic modules, thereby lowering the overall levelized cost of electricity (LCOE). Furthermore, because perovskite materials can be adapted to various substrates (rigid glass, flexible plastics, lightweight films, etc.), they possess natural advantages in building-integrated photovoltaics (BIPV), flexible/portable photovoltaics, distributed photovoltaics, and lightweight/wearable devices, potentially opening up niche markets that traditional silicon solar cells struggle to cover.

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

This Insight Report provides a comprehensive analysis of the global Single Junction Perovskite Cell 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 Single Junction Perovskite Cell portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Single Junction Perovskite Cell market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single Junction Perovskite Cell 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 Single Junction Perovskite Cell.

This report presents a comprehensive overview, market shares, and growth opportunities of Single Junction Perovskite Cell market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Mesoporous Structure

Planar Structure

Segmentation by Material:

Organic-Inorganic Perovskite Materials

Inorganic Perovskite Materials

Segmentation by Structure:

Rigid Module

Flexible Module

Segmentation by Application:

BIPV

Power Station

Transportation & Mobility

Consumer Electronics

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.

Saule Technologies

Active Surfaces

Taiwan Perovskite Solar Corp.

Caelux

Kunshan GCL

Wondersolar

Hangzhou MicroQuanta Semiconductor Co., Ltd.

Liyuan New Energy Technology (Wuxi) Co., Ltd.

UtmoLight Technology Co., Ltd.

Dazheng (Jiangsu) Micro Nano Technology Co., Ltd.

Renshine Solar

Beijing Yaoneng Photoelectric Technology Co., Ltd.

CATL

Wuhan Jiuyao Photoelectric Technology Co., Ltd.

China Huaneng

YanheSolar

BYD

CNNC Optoelectronics Technology (Shanghai) Co., Ltd.

BOE

Hangzhou Colin Electric Co., Ltd.

Ming Yang Smart Energy Group Limited

Chint Group Corporation

Key Questions Addressed in this Report

What is the 10-year outlook for the global Single Junction Perovskite Cell market?

What factors are driving Single Junction Perovskite Cell market growth, globally and by region?

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

How do Single Junction Perovskite Cell market opportunities vary by end market size?

How does Single Junction Perovskite Cell break out by Type, by Application?

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