

Global Single-junction Perovskite Solar Cell Market Growth 2026-2032

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Abstracts

The global Single-junction Perovskite Solar 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 solar 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 solar cells reached 1.569 gigawatts, with an average selling price of US\$0.29 per watt. Gross margins ranged from 29.8% to 33.74%. Upstream raw materials: metal halides, precursors, vapor deposition equipment, 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, light gray photovoltaic modules were laid on the rooftop of the building to echo the overall architectural design, balancing aesthetics and photovoltaic power generation. Installed capacity: 444kW.

Single-junction perovskite solar cells, representing third-generation photovoltaic technology, are gradually becoming a rising force in the global photovoltaic industry due to their high photoelectric conversion efficiency, low material cost, and manufacturing process flexibility. Over the past decade, their efficiency has rapidly increased from single digits to over 25%. With continuous improvements in material stability, encapsulation processes, and large-scale manufacturing processes, the commercial viability of single-junction PSCs is constantly strengthening. At the same time, the growing demand in the photovoltaic market for lightweight, flexible, building-integrated photovoltaics (BIPV), portable, and distributed power generation provides broad application opportunities for the flexible, thin-film, and modular characteristics of perovskite cells. Regarding market growth, multiple market research institutions predict that the perovskite solar cell market will maintain rapid growth from 2025 to the mid-2030s. Considering these factors, single-junction PSCs are expected to gradually move from the laboratory and small-scale pilot production stages to commercial modularization, large-scale production, and market application within the next 5–10 years, becoming an important complementary technology to silicon-based photovoltaics. Meanwhile, its low cost and flexible packaging advantages will also drive its rapid penetration in BIPV, portable devices, distributed photovoltaics, and even complex terrain/lightweight roofs/mobile equipment.

LP Information, Inc. (LPI) ' newest research report, the “Single-junction Perovskite Solar Cell Industry Forecast” looks at past sales and reviews total world Single-junction Perovskite Solar Cell sales in 2025, providing a comprehensive analysis by region and market sector of projected Single-junction Perovskite Solar Cell sales for 2026 through 2032. With Single-junction Perovskite Solar 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 Solar Cell industry.

This Insight Report provides a comprehensive analysis of the global Single-junction Perovskite Solar 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 Solar 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 Solar Cell

market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of Single-junction Perovskite Solar 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 Solar Cell market?

What factors are driving Single-junction Perovskite Solar Cell market growth, globally and by region?

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

How do Single-junction Perovskite Solar Cell market opportunities vary by end market size?

How does Single-junction Perovskite Solar Cell break out by Type, by Application?

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