

Perovskite Solar Cell Market Size, Share & Trends Analysis Report By Product (Flexible, Rigid), By Application (Smart Glass, Solar Panel), By Vertical (Aerospace & Defense, Industrial, Commercial), By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Perovskite Solar Cell Market Size & Trends

The global perovskite solar cell market size was estimated at USD 264.62 million in 2024 and is expected to grow at a CAGR of 72.18% from 2025 to 2030. Technological advancements have led to significant improvements in power conversion efficiency, with perovskite PV cells exceeding most thin-film technologies in small-area lab devices.

The ability to tune perovskites to respond to different colors in the solar spectrum by changing material composition is another advantage. The growth of the perovskite solar cell industry is driven by several key factors. Technological advancements have led to significant improvements in power conversion efficiency, with perovskite PV cells exceeding 25% in lab devices. Perovskites also offer the potential for faster capacity expansion than silicon PV due to scalable fabrication approaches like sheet-to-sheet and roll-to-roll processing.

Global Perovskite Solar Cell Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global perovskite

solar cell market report on the basis of product, vertical, application, and region:

Product Outlook (Revenue, USD Million, 2018 - 2030)

Rigid

Flexible

Vertical Outlook (Revenue, USD Million, 2018 - 2030)

Aerospace & Defense

Industrial

Commercial

Residential

Utility

Application Outlook (Revenue, USD Million, 2018 - 2030)

Smart Glass

Solar Panel

BIPV

Others

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

Italy

Spain

France

Russia

Asia Pacific

China

India

Japan

Australia

Latin America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

UAE

Companies Mentioned

Alfa Aesar
Dyename AB
Energy Materials Corp,
Fraunhofer ISE
Frontier Energy Solution
FrontMaterials Co. Ltd.
FUJIFILM Wako Pure Chemical Corporation
G24 Power Ltd.
Greatcell Energy
Microquanta Semiconductor Co., Ltd.
Oxford PV
Panasonic Corporation

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