

# Global Flexible Solar Array Market Growth 2026-2032

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## Abstracts

The global Flexible Solar Array market size is predicted to grow from US\$ 128 million in 2025 to US\$ 381 million in 2032; it is expected to grow at a CAGR of 17.0% from 2026 to 2032.

Flexible Solar Array refers to an array of solar panels made of flexible materials, which can be bent, folded, or rolled up without damaging the solar cells. The flexible solar panels are attached to a flexible substrate (polyimide), allowing for roll-up storage with a very high folding ratio and lightweight design. Compared to traditional rigid solar arrays, the biggest advantage of flexible solar arrays is their adaptability, enabling use on non-planar surfaces or in confined spaces. Flexible solar arrays utilize ultra-thin flexible substrates, typically no more than 0.5 mm thick, with an overall thickness controlled to approximately 1 mm. This results in a 20%–40% weight reduction for the same area, a cell power conversion efficiency exceeding 30%, and a storage volume more than 60% smaller than traditional rigid solar arrays, while the unfolded area can reach 1.5 times or even more. This design not only significantly reduces launch costs but also frees up fairing space, improving satellite design flexibility and on-orbit power supply capabilities. While traditional satellites primarily use rigid solar arrays, the rise of commercial spaceflight necessitates lighter, more flexible, and more efficient solar arrays for lightweight, highly integrated, and long-life satellites. In 2025, the global capacity of Flexible Solar Array is estimated at approximately 771.36 kW, with an average price of approximately US\$169.01 per watt and a gross margin of approximately 40%.

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

Global key Flexible Solar Array players cover SpaceX, Airbus, Redwire, CASC, GalaxySpace, 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 "Flexible Solar Array Industry Forecast" looks at past sales and reviews total world Flexible Solar Array sales in 2025, providing a comprehensive analysis by region and market sector of projected Flexible Solar Array sales for 2026 through 2032. With Flexible Solar Array sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Flexible Solar Array industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Flexible Solar Array 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 Flexible Solar Array.

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

Segmentation by Type:

Roll-Out Solar Array

Fold-Out Solar Array

Others

Segmentation by Battery Materials:

Silicon-based

Gallium Arsenide

Perovskite

Segmentation by Power:

Small Satellite Solar Cell Arrays

Solar Cell Arrays with (Kilowatts)

Segmentation by Application:

Commercial Low-Earth Orbit Satellites

Commercial Medium-Earth Orbit Satellites

Commercial High-Earth Orbit Satellites

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.

SpaceX

Airbus

Redwire

CASC

GalaxySpace

Suzhou Everlight Space Technology Co., Ltd.

Lantian Tech (CETC)

Shanghai Aerospace Automobile Electromechanical Co., Ltd.

Uniwatt Technology Co.,LTD

Shanghai Geoharbour Construction Group Co., Ltd.

Chongqing Pioneer Satellite Technology Co.Ltd

LANDSPACE

Taizhou Xingkong Zhilian Technology Co., Ltd

MagicCubeSat Technology Co., Ltd.

Shenzhen Topray Solar Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Flexible Solar Array market?

What factors are driving Flexible Solar Array market growth, globally and by region?

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

How do Flexible Solar Array market opportunities vary by end market size?  
How does Flexible Solar Array break out by Type, by Application?

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