

Global Flexible Solar Array Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Flexible Solar Array market size is expected to reach \$ 381 million by 2032, rising at a market growth of 16.0% CAGR during the forecast period (2026-2032).

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%.

This report studies the global Flexible Solar Array production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Flexible Solar Array and provides market size (US\$ million) and Year-over-Year (YoY) Growth,

considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Flexible Solar Array that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Flexible Solar Array total production and demand, 2021-2032, (KW)

Global Flexible Solar Array total production value, 2021-2032, (USD Million)

Global Flexible Solar Array production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KW), (based on production site)

Global Flexible Solar Array consumption by region & country, CAGR, 2021-2032 & (KW)

U.S. VS China: Flexible Solar Array domestic production, consumption, key domestic manufacturers and share

Global Flexible Solar Array production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KW)

Global Flexible Solar Array production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KW)

Global Flexible Solar Array production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KW)

This report profiles key players in the global Flexible Solar Array market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Flexible Solar Array market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KW) and average price (US\$/W) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Flexible Solar Array Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Flexible Solar Array Market, Segmentation by Type:

Roll-Out Solar Array

Fold-Out Solar Array

Others

Global Flexible Solar Array Market, Segmentation by Battery Materials:

Silicon-based

Gallium Arsenide

Perovskite

Global Flexible Solar Array Market, Segmentation by Power:

Small Satellite Solar Cell Arrays

Solar Cell Arrays with (Kilowatts)

Global Flexible Solar Array Market, Segmentation by Application:

Commercial Low-Earth Orbit Satellites

Commercial Medium-Earth Orbit Satellites

Commercial High-Earth Orbit Satellites

Companies Profiled:

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 Answered:

1. How big is the global Flexible Solar Array market?
2. What is the demand of the global Flexible Solar Array market?
3. What is the year over year growth of the global Flexible Solar Array market?
4. What is the production and production value of the global Flexible Solar Array market?
5. Who are the key producers in the global Flexible Solar Array market?
6. What are the growth factors driving the market demand?

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