

# Global Flexible Solar Array Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Flexible Solar Array market size was valued at US\$ 134 million in 2025 and is forecast to a readjusted size of US\$ 381 million by 2032 with a CAGR of 16.0% during review period.

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 is a detailed and comprehensive analysis for global Flexible Solar Array market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this

report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Flexible Solar Array market size and forecasts, in consumption value (\$ Million), sales quantity (KW), and average selling prices (US\$/W), 2021-2032

Global Flexible Solar Array market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (KW), and average selling prices (US\$/W), 2021-2032

Global Flexible Solar Array market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (KW), and average selling prices (US\$/W), 2021-2032

Global Flexible Solar Array market shares of main players, shipments in revenue (\$ Million), sales quantity (KW), and ASP (US\$/W), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Flexible Solar Array

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Flexible Solar Array market based on the following parameters - company overview, sales quantity, revenue, 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.

### **Market Segmentation**

Flexible Solar Array market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

Roll-Out Solar Array

Fold-Out Solar Array

Others

#### Market segment by Battery Materials

Silicon-based

Gallium Arsenide

Perovskite

#### Market segment by Power

Small Satellite Solar Cell Arrays

Solar Cell Arrays with (Kilowatts)

#### Market segment by Application

Commercial Low-Earth Orbit Satellites

Commercial Medium-Earth Orbit Satellites

Commercial High-Earth Orbit Satellites

## Major players covered

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.

## Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Flexible Solar Array product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Flexible Solar Array, with price, sales quantity, revenue, and global market share of Flexible Solar Array from 2021 to 2026.

Chapter 3, the Flexible Solar Array competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Flexible Solar Array breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Flexible Solar Array market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Flexible Solar Array.

Chapter 14 and 15, to describe Flexible Solar Array sales channel, distributors, customers, research findings and conclusion.

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