

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

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## Abstracts

The global Solar Array Wings market size is expected to reach \$ 3807 million by 2032, rising at a market growth of 16.0% CAGR during the forecast period (2026-2032).

Solar Array Wings are energy supply devices for satellites in orbit. They convert solar energy into electrical energy through photovoltaic conversion, providing continuous power to the satellite platform and payload. Their main structure includes solar cells, a substrate, a deployment mechanism, and a drive control system. They can be categorized into rigid, flexible, and hybrid solar arrays. Rigid solar panels are attached to a rigid substrate (aluminum alloy/carbon fiber) and connected to the satellite body via hinges, forming a fixed plane when unfolded; they offer high stability but have a low folding ratio and are heavy. Flexible solar panels are attached to a flexible substrate (polyimide), allowing for roll-up storage, extremely high folding ratio, and light weight. Hybrid solar panels employ a combined rigid-flexible design (rigid support + flexible edge extension), achieving a moderate folding ratio and weight. Traditionally, rigid solar panels are predominantly used on satellites. However, with the rise of commercial spaceflight, lightweight, highly integrated, and long-life satellites require thinner, more flexible, and more efficient solar panels. From an industry value perspective, the power system accounts for 20%-30% of the total cost of a satellite, while Solar Array Wings alone account for 60%-80% of that value, equivalent to 12%-24% of the satellite cost.

The Fifth Academy of China Aerospace Science and Technology Corporation (CASC) has the capacity to produce 400 solar arrays annually, with over 60 units already successfully flown in orbit. CASC plans to add 300 units annually by 2025, and reach 1,000 units annually by 2026. However, due to significant variations in solar array customization, this report uses power statistics. In 2025, global Solar Array Wings production capacity is estimated at approximately 7.7136 MW, with an average price of

approximately US\$169.01/W and a gross margin of approximately 40%.

With the commercialization and constellation deployment of satellites, the demand for high-performance solar wings continues to grow, driven by the rapid expansion of LEO constellations, small satellites, and communication satellites, which fuels the market for flexible and modular solar arrays, while high-efficiency photovoltaic materials such as multi-junction GaAs cells and flexible thin films increase power density to support deep space exploration, GEO communication satellites, and defense applications; foldable and lightweight designs reduce launch costs and adapt to different satellite sizes and orbits, and national space programs and research missions provide stable procurement opportunities for manufacturers. However, solar wing R&D and manufacturing costs are high, diverse satellite platform requirements for size, power, and flexibility limit product universality, harsh launch environments with vibration, radiation, and thermal cycles increase technical and production risks, and space policies and export controls may affect international market expansion. Downstream demand is driven by commercial communication satellites, remote sensing satellites, and navigation satellites seeking high efficiency, reliability, and deployable wings, while LEO constellations and small satellites promote flexible and rapidly deployable modular wings, deep space exploration and scientific satellites increase demand for high-power, multi-junction wings, and downstream needs are increasingly focused on lightweight, high-power, and re-deployable solutions, forming a dual driver of technological innovation and market growth.

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

This report is a detailed and comprehensive analysis of the world market for Solar Array Wings 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 Solar Array Wings that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Solar Array Wings total production and demand, 2021-2032, (MW)

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

Global Solar Array Wings production by region & country, production, value, CAGR,

2021-2032, (USD Million) & (MW), (based on production site)

Global Solar Array Wings consumption by region & country, CAGR, 2021-2032 & (MW)

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

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

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

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

This report profiles key players in the global Solar Array Wings 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 Solarwing.space, SpaceX, Airbus, Redwire, Northrop Grumman, MMA Space, Sierra Space, DHV Technology, EnduroSat, AAC Clyde Space, 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 Solar Array Wings market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) 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 Solar Array Wings Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Solar Array Wings Market, Segmentation by Type:

Rigid Solar Array

Semi-rigid Solar Array

Flexible Solar Array

#### Global Solar Array Wings Market, Segmentation by Battery Materials:

Silicon-based

Gallium Arsenide

Perovskite

#### Global Solar Array Wings Market, Segmentation by Power:

Small Satellite Solar Cell Arrays

Solar Cell Arrays with (Kilowatts)

Global Solar Array Wings Market, Segmentation by Application:

Commercial Low-Earth Orbit Satellites

Commercial Medium-Earth Orbit Satellites

Commercial High-Earth Orbit Satellites

Companies Profiled:

Solarwing.space

SpaceX

Airbus

Redwire

Northrop Grumman

MMA Space

Sierra Space

DHV Technology

EnduroSat

AAC Clyde Space

GomSpace

ISISPACE

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.

Hunan Aerospace Huanyu Communication Technology Co., Ltd.

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### **Key Questions Answered:**

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

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