

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

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Abstracts

The global Aerospace Solar Array 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).

Aerospace Solar Arrays are energy supply devices for satellites in orbit, converting solar energy into electrical energy through photoelectric conversion to provide continuous power to the satellite platform and payload. The main structure consists of solar cells, a substrate, a deployment mechanism, and a drive control system. They can be categorized into rigid solar arrays, flexible solar arrays, and hybrid solar arrays. Rigid solar arrays have cells attached to a rigid substrate (aluminum alloy/carbon fiber) and connected to the satellite body via hinges, forming a fixed plane after deployment; they offer high stability but have a low folding ratio and are heavy. Flexible solar arrays have cells attached to a flexible substrate (polyimide), allowing for roll-up storage; they have an extremely high folding ratio and are lightweight. Hybrid solar arrays employ a combination of rigid and flexible designs (rigid support + flexible edge extension), resulting in a moderate folding ratio and weight. Traditionally, rigid solar arrays are predominantly installed on satellites. However, with the rise of commercial spaceflight, lightweight, highly integrated, and long-life satellites require thinner, more flexible, and more efficient solar arrays. In 2025, the global production capacity of Aerospace Solar Arrays was approximately 7.7136 MW, with an average price of approximately US\$169.01/W and a gross margin of approximately 40%.

Over the past two years, the continuous networking of low-Earth orbit broadband constellations has propelled solar arrays from 'project-customized spacecraft components' to 'engineerable, mass-producible core subsystems.' On the one hand, the rapid increase in the number of constellation satellites has directly increased the demand for medium-power, low-cost, and short-delivery-time solar arrays; on the other

hand, the increased power of single satellites driven by remote sensing and high-throughput communication has led to larger array areas, higher specific power, and upgraded on-orbit availability requirements, accelerating the verification and adoption of new configurations such as flexible folding and roll-up designs. Meanwhile, the supply chain is expanding the key capabilities of solar arrays from single-point manufacturing to end-to-end collaboration encompassing 'cells and interconnects, structural mechanisms, assembly and testing, and mass production quality systems,' thereby creating a replicable delivery cycle and cost curve. The industrialization challenge of solar arrays lies in the contradiction between high reliability and mass production. For constellation customers, delivery cycle time and consistency are crucial, but solar arrays must also meet stringent aerospace environment and long-term lifespan requirements. Any failure of the deployment mechanism, open interconnects, insufficient atomic oxygen protection, or power degradation due to thermal cycling could directly lead to on-orbit performance risks. Another type of risk comes from supply constraints on upstream space-grade cells, packaging materials, and key components, as well as the impact of export controls and compliance requirements on the international supply chain. Future competition will lean more towards a comprehensive system of 'standardized platform capabilities + large-scale manufacturing yield + full-process verification data,' rather than just single-cell efficiency or single-point structural innovation. In the short term, low-Earth orbit (LEO) constellations remain the determining factor in shipment volume, with high sensitivity to price and delivery time, driving the evolution of solar arrays towards modularity and configurability. In the medium to long term, high-power platforms and deep-space missions place higher demands on capabilities such as high specific power, multiple deployment and retrieval capabilities, and on-orbit maintainability, giving flexible and rollable arrays greater premium potential. With the advancement of commercial space stations, on-orbit services, and higher-power payloads, solar arrays will gradually transform from 'components in satellite costs' to 'critical bottleneck components that determine the upper limit of available power for a mission.' The industry will place greater emphasis on the engineering closed loop from design and testing to mass production and on-orbit data assets.

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

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

Highlights and key features of the study

Global Aerospace Solar Array total production and demand, 2021-2032, (KW)
Global Aerospace Solar Array total production value, 2021-2032, (USD Million)
Global Aerospace Solar Array production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KW), (based on production site)
Global Aerospace Solar Array consumption by region & country, CAGR, 2021-2032 & (KW)
U.S. VS China: Aerospace Solar Array domestic production, consumption, key domestic manufacturers and share
Global Aerospace Solar Array production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KW)
Global Aerospace Solar Array production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KW)
Global Aerospace Solar Array production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KW)

This report profiles key players in the global Aerospace 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 Solarwing.space, Beyond Gravity, SpaceX, Airbus, Redwire, Northrop Grumman, MMA Space, Sierra Space, DHV Technology, EnduroSat, 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 Aerospace 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 Aerospace Solar Array Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aerospace Solar Array Market, Segmentation by Type:

Rigid Solar Array

Semi-rigid Solar Array

Flexible Solar Array

Global Aerospace Solar Array Market, Segmentation by Battery Materials:

Silicon-based

Gallium Arsenide

Perovskite

Global Aerospace Solar Array Market, Segmentation by Power:

Small Satellite Solar Cell Arrays

Solar Cell Arrays with (Kilowatts)

Global Aerospace Solar Array Market, Segmentation by Application:

Commercial Low-Earth Orbit Satellites

Commercial Medium-Earth Orbit Satellites

Commercial High-Earth Orbit Satellites

Companies Profiled:

Solarwing.space

Beyond Gravity

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.

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

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