

# Global Solar Arrays for Satellites 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 Solar Arrays for Satellites market size was valued at US\$ 1341 million in 2025 and is forecast to a readjusted size of US\$ 3807 million by 2032 with a CAGR of 16.0% during review period.

Solar Arrays for Satellites 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. In 2025, global Solar Arrays for Satellites 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 rapid growth of global space stations, communication constellations, navigation satellites, and private space launches, the satellite solar cell array market is experiencing unprecedented development opportunities. In recent years, both commercial space companies and traditional space agencies have increased their investment in low-Earth orbit broadband communication satellites and constellation systems, leading to a continuous expansion of satellite manufacturing orders. As the primary energy source for spacecraft, the demand for solar cell arrays is growing in tandem, driving the related industry chain towards higher efficiency, lighter weight, and modularity. Technological upgrades and material innovations (such as III-V multi-junction cells and flexible arrays) further improve system efficiency and power generation density, making next-generation solar cell arrays more competitive in deep space probes and long-life orbital platforms.

Despite the optimistic growth prospects, the solar cell array market still faces some challenging factors. First, high R&D and manufacturing costs, coupled with the high demands placed on the supply chain for high-quality solar cells and high-precision structural support components, make it difficult for small and medium-sized enterprises to enter the core supply chain. Second, market requirements for high reliability and high radiation tolerance result in long system verification cycles and low failure rate tolerance, increasing testing and certification costs. The pace of commercial satellite launches is closely related to macroeconomic fluctuations; global economic uncertainties may affect launch plans and procurement decisions, thereby impacting the demand rhythm of the solar cell array market. Furthermore, intensified market competition necessitates continuous investment from companies in pricing, service, and technological innovation.

Currently, downstream demand is expanding from single-purpose communication satellites to multiple applications. On one hand, the large-scale deployment of broadband communication constellations has driven strong demand for high-efficiency, rapidly modular solar cell arrays for low-Earth orbit satellites. On the other hand, Earth observation, remote sensing, meteorological, and navigation satellites are placing higher performance demands on long-term stable power supply systems, making highly stable solar array systems more attractive. Simultaneously, deep space exploration and lunar orbital science missions are setting higher standards for the radiation resistance and extreme temperature resistance of array surfaces, driving continuous innovation in materials and design. The development of on-orbit solar cell arrays is not only central to improving manufacturing processes but also a crucial element of commercial aerospace competitiveness.

This report is a detailed and comprehensive analysis for global Solar Arrays for Satellites 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 Solar Arrays for Satellites market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/W), 2021-2032

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

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

Global Solar Arrays for Satellites market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), 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 Solar Arrays for Satellites

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 Solar Arrays for Satellites 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 Spectrolab, Inc., Rocket Lab(SolAero

Technologies), NanoAvionics, Redwire, Airbus, GomSpace, ISISPACE, DHV Technology, Pumpkin Inc., MMA Space, etc.

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

## **Market Segmentation**

Solar Arrays for Satellites 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

Rigid Wing

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

Spectrolab, Inc.

Rocket Lab(SolAero Technologies)

NanoAvionics

Redwire

Airbus

GomSpace

ISISPACE

DHV Technology

Pumpkin Inc.

MMA Space

Northrop Grumman

Sierra Space

EnduroSat

AAC Clyde Space

Solarwing.space

SpaceTech

CASC

GalaxySpace

Suzhou Everlight Space Technology Co., Ltd.

Lantian Tech (CETC)

Uniwatt Technology Co.,LTD

Shanghai Geoharbour Construction Group Co., Ltd.

MagicCubeSat Technology Co., Ltd.

Hunan Aerospace Huanyu Communication Technology Co., Ltd.

Aerope

Chongqing Pioneer Satellite Technology 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 Solar Arrays for Satellites product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Solar Arrays for Satellites 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 Solar Arrays for Satellites 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 Solar Arrays for Satellites.

Chapter 14 and 15, to describe Solar Arrays for Satellites sales channel, distributors, customers, research findings and conclusion.

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