

# Global Roll Out Solar Array (ROSA) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Roll Out Solar Array (ROSA) 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).

Roll-Out Solar Array (ROSA) is a specific type of flexible solar cell array that is deployed by rolling it up. ROSAs typically consist of lightweight, flexible solar panels that can unfold in space to create a large solar energy collection area. Due to their rollable nature, this type of solar array is ideal for use on spacecraft or satellites, as it can be easily stored and save space during launch, and unfolds via a drive mechanism after entering space. In 2025, the global capacity of Roll-Out Solar Array (ROSA) was approximately 771.36 kW, with an average price of approximately US\$169.01/W and a gross margin of approximately 40%.

This report studies the global Roll Out Solar Array (ROSA) production, demand, key manufacturers, and key regions.

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

### Highlights and key features of the study

Global Roll Out Solar Array (ROSA) total production and demand, 2021-2032, (KW)

Global Roll Out Solar Array (ROSA) total production value, 2021-2032, (USD Million)

Global Roll Out Solar Array (ROSA) production by region & country, production, value,

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

This report profiles key players in the global Roll Out Solar Array (ROSA) 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 Roll Out Solar Array (ROSA) 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 Roll Out Solar Array (ROSA) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Roll Out Solar Array (ROSA) Market, Segmentation by Type:

Roll-Out Solar Array

Fold-Out Solar Array

Others

Global Roll Out Solar Array (ROSA) Market, Segmentation by Battery Materials:

Silicon-based

Gallium Arsenide

Perovskite

Global Roll Out Solar Array (ROSA) Market, Segmentation by Power:

Small Satellite Solar Cell Arrays

Solar Cell Arrays with (Kilowatts)

## Global Roll Out Solar Array (ROSA) 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 Roll Out Solar Array (ROSA) market?
2. What is the demand of the global Roll Out Solar Array (ROSA) market?
3. What is the year over year growth of the global Roll Out Solar Array (ROSA) market?
4. What is the production and production value of the global Roll Out Solar Array (ROSA) market?
5. Who are the key producers in the global Roll Out Solar Array (ROSA) market?
6. What are the growth factors driving the market demand?

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