

Global Solar UAV Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar UAV market size is expected to reach \$ 502 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

In 2025, global solar UAV production reached approximately 10459 units, the average price is 26 k usd/unit. A solar UAV is an unmanned aerial vehicle that uses solar photovoltaic cells as its primary energy source. It absorbs solar radiation through photoelectric conversion devices on its wing surfaces and integrates with an energy storage system to achieve long-duration, continuous flight. Its core design goal is to utilize renewable energy to overcome the range limitations of traditional fuel or battery power, achieving near-permanent aerial operations.

Market Concentration and Major Players:

Internationally, the solar-powered drone market is highly concentrated, primarily in developed countries like Europe and America. Major players include BAE Systems and Airbus. Domestically, however, there is still significant room for growth in the solar-powered drone market.

Manufacturing Process and Market Trends:

The core of solar-powered drone manufacturing lies in extreme lightweighting and deep integration of the energy system. To meet the demands of high-altitude, long-endurance flight, the airframe structure generally employs a high aspect ratio design and extensively utilizes carbon fiber composite materials. Ultralight wings are manufactured using autoclave molding or automated fiber placement processes to maintain sufficient rigidity and aerodynamic efficiency in the harsh stratospheric environment. The energy

system is another major challenge. Flexible gallium arsenide or perovskite thin-film solar cells need to be laid on the wing surface and integrated with the skin through lamination to ensure high photoelectric conversion efficiency even under bending conditions. The power system employs a high-power-density brushless motor with maximum power point tracking (MPPT) technology, paired with high-energy-density lithium-sulfur or lithium-ion battery packs, creating a closed-loop energy management system that operates during the day and night.

In terms of market trends, solar-powered drones are moving from experimental verification to quasi-satellite applications. In the communications field, as a High Altitude Platform (HAPS), they are becoming a key node filling the gap between satellites and ground base stations, providing low-cost 5G/6G communication relay and IoT coverage for remote areas. In remote sensing monitoring, thanks to their ultra-long endurance, they are gradually replacing some of the functions of high-cost low-Earth orbit satellites in meteorological observation, border patrol, and wide-area disaster monitoring. In terms of technological evolution, breakthroughs in flexible photovoltaic and energy storage technologies continue to improve the payload ratio, while AI-driven autonomous flight and cluster networking technologies are propelling them towards becoming 'aerial intelligent infrastructure,' potentially playing a more central role in emergency communications and integrated space-ground networks in the future.

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

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

Highlights and key features of the study

Global Solar UAV total production and demand, 2021-2032, (Units)

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

Global Solar UAV production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Solar UAV consumption by region & country, CAGR, 2021-2032 & (Units)

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

Global Solar UAV production by manufacturer, production, price, value and market

share 2021-2026, (USD Million) & (Units)

Global Solar UAV production by Structure, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Solar UAV production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Solar UAV 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 Airbus (Netherlands), AeroVironment (USA), Skydwell (USA), Silent Falcon UAS (USA), Sunlight Aerospace (USA), UAVOS (USA), BAE Systems (UK), Sunbirds (France), China Aviation Industry, 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 UAV market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Structure, 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 UAV Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar UAV Market, Segmentation by Structure:

Fixed-wing UAV

Rotorcraft UAV

Umbrella UAV

Global Solar UAV Market, Segmentation by Flight Altitude:

1000-10000 m

> 10000 m

Global Solar UAV Market, Segmentation by Control:

Remote-controlled

Autonomous flight

Semi-autonomous Flight

Global Solar UAV Market, Segmentation by Application:

Civil and Commercial

Defense and Military

Companies Profiled:

Airbus (Netherlands)

AeroVironment (USA)

Skydweller (USA)

Silent Falcon UAS (USA)

Sunlight Aerospace (USA)

UAVOS (USA)

BAE Systems (UK)

Sunbirds (France)

China Aviation Industry

Key Questions Answered:

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

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