

Global Solar UAV Market Growth 2026-2032

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Abstracts

The global Solar UAV market size is predicted to grow from US\$ 266 million in 2025 to US\$ 492 million in 2032; it is expected to grow at a CAGR of 9.2% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the 'Solar UAV Industry Forecast' looks at past sales and reviews total world Solar UAV sales in 2025, providing a comprehensive analysis by region and market sector of projected Solar UAV sales for 2026 through 2032. With Solar UAV sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solar UAV industry.

This Insight Report provides a comprehensive analysis of the global Solar UAV landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Solar UAV portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar UAV market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar UAV and breaks down the forecast by Structure, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the

current state and future trajectory in the global Solar UAV.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar UAV market by product type, application, key manufacturers and key regions and countries.

Segmentation by Structure:

Fixed-wing UAV

Rotorcraft UAV

Umbrella UAV

Segmentation by Flight Altitude:

1000-10000 m

> 10000 m

Segmentation by Control:

Remote-controlled

Autonomous flight

Semi-autonomous Flight

Segmentation by Application:

Civil and Commercial

Defense and Military

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Solar UAV market?

What factors are driving Solar UAV market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Solar UAV market opportunities vary by end market size?

How does Solar UAV break out by Structure, by Application?

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