

Global Solar Farm Intelligent Robotic Mower 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 Farm Intelligent Robotic Mower market size was valued at US\$ 262 million in 2025 and is forecast to a readjusted size of US\$ 440 million by 2032 with a CAGR of 8.3% during review period.

Solar Farm Intelligent Robotic Mower is an intelligent vegetation management equipment designed for operation and maintenance scenarios such as ground-mounted PV power stations, agrivoltaic power stations, and mountain, hilly, sandy and desert PV stations. It usually features a low-profile body, a tracked or high-clearance chassis, intelligent navigation, remote control or semi-autonomous control, obstacle avoidance, path planning, remote monitoring and the ability to travel under PV panels. It is used to safely and efficiently complete weed trimming between PV arrays or under panels, reducing operation and maintenance costs and safety risks compared with manual labor and traditional fuel-powered equipment. Unlike residential robotic mowers, such products place greater emphasis on compatibility with under-panel clearance, adaptability to complex terrains, long battery life, dust and water resistance, remote operation and maintenance, and high efficiency in large-area operation. In 2025, the global sales volume of Solar Farm Intelligent Robotic Mowers will reach approximately 3,752 units, with an average price of 68,000 US dollars per unit and an average industry gross margin of about 34%.

Solar Farm Intelligent Robotic Mowers are evolving from single-function equipment into a core component of the intelligent operation and maintenance system for power stations. Technically, the integration of AI and multi-sensors continues to deepen, with boundary-free navigation, centimeter-level positioning and dynamic obstacle avoidance becoming standard configurations. The equipment can independently adapt to complex

terrains and under-panel spaces, achieving fully autonomous operation and predictive maintenance while greatly reducing manual intervention. The product form is moving toward lightweight design, low chassis and high passability, adapting to diverse scenarios such as mountainous areas, deserts, agrivoltaic and fishery-solar hybrid systems.

This report is a detailed and comprehensive analysis for global Solar Farm Intelligent Robotic Mower 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 Farm Intelligent Robotic Mower market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Solar Farm Intelligent Robotic Mower market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Solar Farm Intelligent Robotic Mower market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Solar Farm Intelligent Robotic Mower market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 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 Farm Intelligent Robotic Mower

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 Farm Intelligent Robotic Mower 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 Sata Robot Technology (Suzhou) Co., Ltd., Renu Robotics, Swap Robotics, Belrobotics, SuZhou Xinzuobiao Intelligence Equipment Co., Ltd., Purple Tech Limited Co., Ltd, DVO??K - svahov? seka?ky s.r.o.(SPIDER), etc.

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

Market Segmentation

Solar Farm Intelligent Robotic Mower 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

Remote-Controlled Solar Farm Mower

Semi-Autonomous Solar Farm Mower

Fully Autonomous Solar Farm Mower

Market segment 1

1

Market segment by Application

Ground-Mounted PV Power Station

Mountain & Hilly PV Station

Other

Major players covered

Sata Robot Technology (Suzhou) Co., Ltd.

Renu Robotics

Swap Robotics

Belrobotics

SuZhou Xinzuobiao Intelligence Equipment Co., Ltd.

Purple Tech Limited Co., Ltd

DVO??K - svahov? seka?ky s.r.o.(SPIDER)

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 Farm Intelligent Robotic Mower product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solar Farm Intelligent Robotic Mower, with price, sales quantity, revenue, and global market share of Solar Farm Intelligent Robotic Mower from 2021 to 2026.

Chapter 3, the Solar Farm Intelligent Robotic Mower competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solar Farm Intelligent Robotic Mower 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 Farm Intelligent Robotic Mower 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 Farm Intelligent Robotic Mower.

Chapter 14 and 15, to describe Solar Farm Intelligent Robotic Mower sales channel, distributors, customers, research findings and conclusion.

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