

Global PV Module Cleaning Robots Market Growth 2026-2032

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Abstracts

The global PV Module Cleaning Robots market size is predicted to grow from US\$ 281 million in 2025 to US\$ 651 million in 2032; it is expected to grow at a CAGR of 14.1% from 2026 to 2032.

PV module cleaning robots typically refer to automated cleaning equipment developed for ground-mounted power plants, tracking bracket power plants, industrial and commercial rooftops, and some special large-span scenarios. Their core task is to periodically remove dust, sand, and other surface deposits without affecting the safety of the modules, so as to support the modules to maintain their designed power generation performance and power plant operation and maintenance efficiency, restore the light transmittance of the modules, ensure power generation efficiency, and extend the service life of the solar panels.

In 2025, global PV Module Cleaning Robot sale reached approximately 56,550 Units, with an average global market price of around 5,085 US\$/Unit. Production capacity reached 65,000 Units, with a gross profit margin of approximately 40%.

United States market for PV Module Cleaning Robots is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for PV Module Cleaning Robots is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for PV Module Cleaning Robots is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key PV Module Cleaning Robots players cover SolarCleanso, Serbot AG, SunBrush, hyCLEANER GmbH, SCM Solar, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global PV Module Cleaning Robots 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 PV Module Cleaning Robots portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PV Module Cleaning Robots market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PV Module Cleaning Robots and breaks down the forecast by Cleaning Efficiency, 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 PV Module Cleaning Robots.

This report presents a comprehensive overview, market shares, and growth opportunities of PV Module Cleaning Robots market by product type, application, key manufacturers and key regions and countries.

Segmentation by Cleaning Efficiency:

Below 1000m²/h

1000-1500m²/h

Above 1500m²/h

Segmentation by Type:

Rail-type

Track-type

Others

Segmentation by Cleaning Method:

Dry Cleaning

Water Cleaning

Segmentation by Application:

Ground Centralized

Commercial and Industrial Distributed

Building Integrated Photovoltaics

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.

SolarCleanso

Serbot AG

SunBrush

hyCLEANER GmbH

SCM Solar

AX Solar Robot

Ecoppia

Solmaks

Guangdong LeopardDust Robot

Arctech

Shandong Luyu Intelligent Technology

Boson Robotics

Shanghai Yiyou Technology

Shanghai Weijiang Robot Technology

Sunpure Intelligent Technology

Lingdu Intel-tech Development

GuangDong Multifit Solar

Jiangsu Skysys

Ifbot Intelligent Technology

Suzhou Radiant Solar Energy Technology

Cooper New Energy

Xiamen Lanxu Intelligent Technology

Guangdong JIENENG

Shandong Yunjie Cleaning Equipment (XYT)

Langfang Sol-Brigh New Energy Technology

Shenzhen Kwunphi

Aegeus Technologies

Taypro

Key Questions Addressed in this Report

What is the 10-year outlook for the global PV Module Cleaning Robots market?

What factors are driving PV Module Cleaning Robots market growth, globally and by region?

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

How do PV Module Cleaning Robots market opportunities vary by end market size?

How does PV Module Cleaning Robots break out by Cleaning Efficiency, by Application?

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