

# **Global PV Module Cleaning Robots 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 PV Module Cleaning Robots market size was valued at US\$ 296 million in 2025 and is forecast to a readjusted size of US\$ 656 million by 2032 with a CAGR of 13.2% during review period.

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%.

This report is a detailed and comprehensive analysis for global PV Module Cleaning Robots market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Cleaning Efficiency 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 PV Module Cleaning Robots market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global PV Module Cleaning Robots market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global PV Module Cleaning Robots market size and forecasts, by Cleaning Efficiency and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global PV Module Cleaning Robots market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (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 PV Module Cleaning Robots

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 PV Module Cleaning Robots 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 SolarCleanso, Serbot AG, SunBrush, hyCLEANER GmbH, SCM Solar, AX Solar Robot, Ecoppia, Solmaks, Guangdong LeopardDust Robot, Arctech, etc.

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

### Market Segmentation

PV Module Cleaning Robots market is split by Cleaning Efficiency and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Cleaning Efficiency, 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 Cleaning Efficiency

Below 1000m<sup>2</sup>/h

1000-1500m<sup>2</sup>/h

Above 1500m<sup>2</sup>/h

#### Market segment by Type

Rail-type

Track-type

Others

#### Market segment by Cleaning Method

Dry Cleaning

Water Cleaning

#### Market segment by Application

Ground Centralized

Commercial and Industrial Distributed

Building Integrated Photovoltaics

## Major players covered

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

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 PV Module Cleaning Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PV Module Cleaning Robots, with price, sales quantity, revenue, and global market share of PV Module Cleaning Robots from 2021 to 2026.

Chapter 3, the PV Module Cleaning Robots competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PV Module Cleaning Robots 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 Cleaning Efficiency and by Application, with sales market share and growth rate by Cleaning Efficiency, 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 PV Module Cleaning Robots market forecast, by regions, by Cleaning Efficiency, 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 PV Module Cleaning Robots.

Chapter 14 and 15, to describe PV Module Cleaning Robots sales channel, distributors, customers, research findings and conclusion.

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