

Global PV Module Cleaning Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PV Module Cleaning Robots market size is expected to reach \$ 656 million by 2032, rising at a market growth of 13.2% CAGR during the forecast period (2026-2032).

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%.

This report studies the global PV Module Cleaning Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PV Module Cleaning Robots 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 PV Module Cleaning Robots that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PV Module Cleaning Robots total production and demand, 2021-2032, (Units)
Global PV Module Cleaning Robots total production value, 2021-2032, (USD Million)
Global PV Module Cleaning Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global PV Module Cleaning Robots consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: PV Module Cleaning Robots domestic production, consumption, key domestic manufacturers and share
Global PV Module Cleaning Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global PV Module Cleaning Robots production by Cleaning Efficiency, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global PV Module Cleaning Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global PV Module Cleaning Robots 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PV Module Cleaning Robots market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Cleaning Efficiency, 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 PV Module Cleaning Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PV Module Cleaning Robots Market, Segmentation by Cleaning Efficiency:

Below 1000m²/h

1000-1500m²/h

Above 1500m²/h

Global PV Module Cleaning Robots Market, Segmentation by Type:

Rail-type

Track-type

Others

Global PV Module Cleaning Robots Market, Segmentation by Cleaning Method:

Dry Cleaning

Water Cleaning

Global PV Module Cleaning Robots Market, Segmentation by Application:

Ground Centralized

Commercial and Industrial Distributed

Building Integrated Photovoltaics

Companies Profiled:

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 Answered:

1. How big is the global PV Module Cleaning Robots market?
2. What is the demand of the global PV Module Cleaning Robots market?
3. What is the year over year growth of the global PV Module Cleaning Robots market?
4. What is the production and production value of the global PV Module Cleaning Robots market?
5. Who are the key producers in the global PV Module Cleaning Robots market?

6. What are the growth factors driving the market demand?

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