

Global Intelligent Photovoltaic Panel Cleaning Robot Market Growth 2026-2032

<https://marketpublishers.com/r/G3CA29092EDCEN.html>

Date: May 2026

Pages: 160

Price: US\$ 3,660.00 (Single User License)

ID: G3CA29092EDCEN

Abstracts

The global Intelligent Photovoltaic Panel Cleaning Robot market size is predicted to grow from US\$ 172 million in 2025 to US\$ 437 million in 2032; it is expected to grow at a CAGR of 14.5% from 2026 to 2032.

Intelligent photovoltaic panel cleaning robots are photovoltaic operation and maintenance equipment integrating sensors, control algorithms, and automated actuators. They can sense and judge the surface contamination of photovoltaic modules, autonomously plan cleaning paths, and complete brushing, airflow, or waterless cleaning operations to continuously maintain the power generation efficiency of the modules. Compared to traditional cleaning equipment, these robots typically possess remote monitoring, cluster scheduling, and operational data feedback capabilities. They can be linked with power plant operation and maintenance systems to achieve intelligent and refined management of cleaning strategies. They are important intelligent equipment for improving power generation revenue and operation and maintenance efficiency in large-scale photovoltaic power plants and high-labor-cost scenarios. In 2025, sales reached 36,000 units, with an average price of \$4,900, total production capacity of 40,000 units, and a gross profit margin of 41%.

From the demand side, the growth of the intelligent photovoltaic panel cleaning robot market stems primarily from the transformation of photovoltaic power plant operation and maintenance from 'extensive maintenance' to 'data-driven refined management.' As the scale of photovoltaic installations continues to expand, power plant owners are increasingly focused on the true power generation efficiency per unit component and the levelized cost of electricity (LCOE) over the entire lifecycle. The matching between cleaning frequency, cleaning timing, and pollution levels is being quantified and evaluated. In deserts, high-dust areas, and regions with high manual maintenance

costs, intelligent cleaning robots with perception, judgment, and automatic decision-making capabilities can avoid ineffective cleaning and high-frequency manual inspections, gradually upgrading from auxiliary tools to key nodes in the intelligent operation and maintenance system of power plants.

From the supply and competitive landscape perspective, the intelligent photovoltaic panel cleaning robot industry is evolving from 'single-machine intelligence' to 'system-level intelligence.' Leading manufacturers are improving overall cleaning efficiency and equipment reliability by introducing environmental sensing, remote operation and maintenance platforms, and multi-robot collaborative scheduling, while enhancing customer loyalty through a sales-plus-maintenance-service model. As technology matures and large-scale applications advance, industry competition will shift from hardware specifications to algorithm capabilities, system stability, and cross-power station operation and maintenance service capabilities. Manufacturers with long-term delivery and service capabilities are expected to continue to benefit from market consolidation.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Intelligent Photovoltaic Panel Cleaning Robot and breaks down the forecast by Type, 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 Intelligent Photovoltaic Panel Cleaning Robot.

This report presents a comprehensive overview, market shares, and growth opportunities of Intelligent Photovoltaic Panel Cleaning Robot market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Fixed

Mobile

Segmentation by Clean Form:

Dry Brush PV Cleaning Robot

Water-based PV Cleaning Robot

Segmentation by Automation:

Fully Automatic PV Cleaning Robot

Semi-automatic PV Cleaning Robot

Segmentation by Application:

Distributed Photovoltaic Power Station

Centralized Photovoltaic Power Station

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.

SunPower

Innovpower

BOSON

Westrong

SUNPURE

Alion Energy

Ecoppia

SolarCleano

SERBOT AG

Airtouch Solar

HyCLEANER

Tetraelc

Solenergy

Cooperwind

louluo

Washpanel

Clean Solar Solutions Ltd

Derui Intelligent

Ecobright

Xiamen Lanxu Intelligent Technology

Lingdu (Guangdong) Intelligent

Xingluo Smart Technology(Suzhou) Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Intelligent Photovoltaic Panel Cleaning Robot market?

What factors are driving Intelligent Photovoltaic Panel Cleaning Robot market growth, globally and by region?

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

How do Intelligent Photovoltaic Panel Cleaning Robot market opportunities vary by end market size?

How does Intelligent Photovoltaic Panel Cleaning Robot break out by Type, by Application?

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