



SOLAR CLEANING ROBOT

MR-G3

Product Introduction

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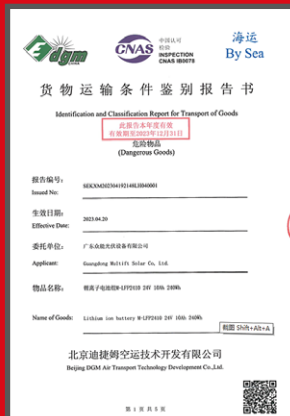
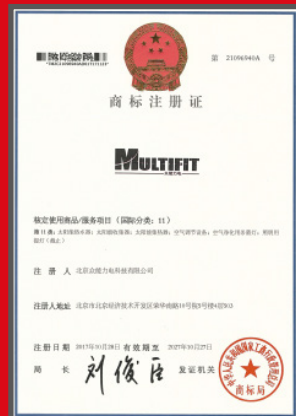
Contact Us

More Power More Life

<http://www.multifitsolar.com>



COMPANY HONOR



Some Authoritative Test Reports And Certificates Of Honor.



HONOR

MULTIFIT PROFILE

2009
Since

16+
Years In Solar Industry

Multifit Solar is a high-tech manufacturer which is mainly dedicated to research and development, produce, sale and construct of solar power systems and other green energy.

Our cleaning equipments include solar panel tracking cleaning robots, track-mounted fully automatic walking solar cleaning trolley, the third generation four-wheel drive mode of the solar cleaning robot with stronger cross-barrier ability, crawler-type upper and lower cleaning robot and semi-automatic photovoltaic cleaning brush for civil power stations.

Our cleaning robots realize the remote intelligent control and have many functions: automatic avoidance function to prevent the robot from slipping, automatic rectify correction mechanism and automatic adjustment to prevent the machine from deviation, running tilt, jamming, and good obstacle surmounting performance to surmount certain slopes, steps, and dislocations. Also, a new intelligent management cloud platform for remote photovoltaic panel cleaning robot has been set up in our robot. And our cleaning robot has our own unique technology in intelligent cleaning of photovoltaic panels by robots, automatic detection, tracking and positioning, group communication and control functions, as well as the establishment of an intelligent management platform with multi-terminal control.

In the future, Multifit will be continually committing to improve the renewable energy industry and develop more efficient and cost-effective solar cleaning solutions.



Research and development



Production



Sell



MULTIFIT CULTURE



ENTERPRISE MISSION

Bring more green electricity into our lives.



DEVELOPMENT VISION

Develop more efficient and cost-effective solar solutions.



TALENT CULTURE



Respect



Trust



Responsibility



Grow up



Share



Happy

THE IMPORTANCE OF CLEANING SOLAR PANELS



The effect of power generation efficiency.



① Pollutant Rust



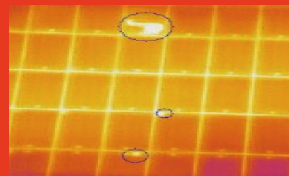
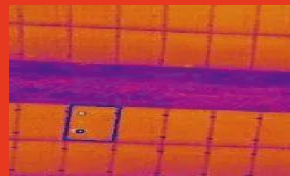
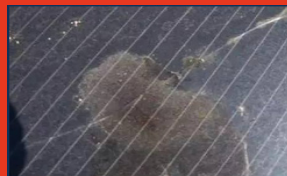
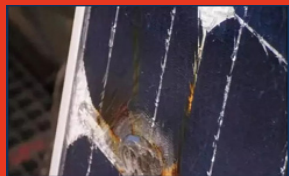
② Bird Droppings



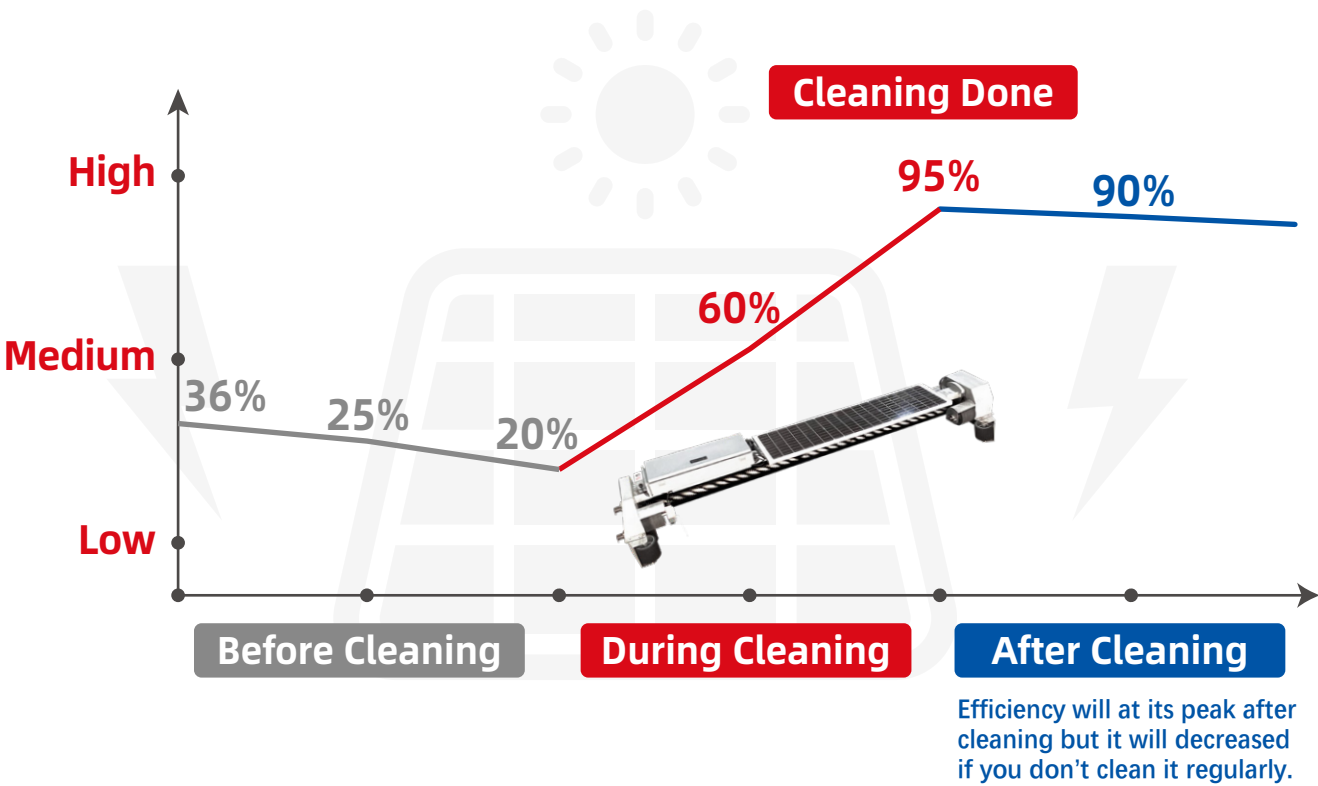
③ Dust



The solar panels covered by pollutant may cause hot spots, which will damage the panel and even make the panel burned.



SOLAR PANEL POWER GENERATION EFFICIENCY



THE ADVANTAGES OF USING SOLAR PANEL CLEANING ROBOT



Longer Service Life



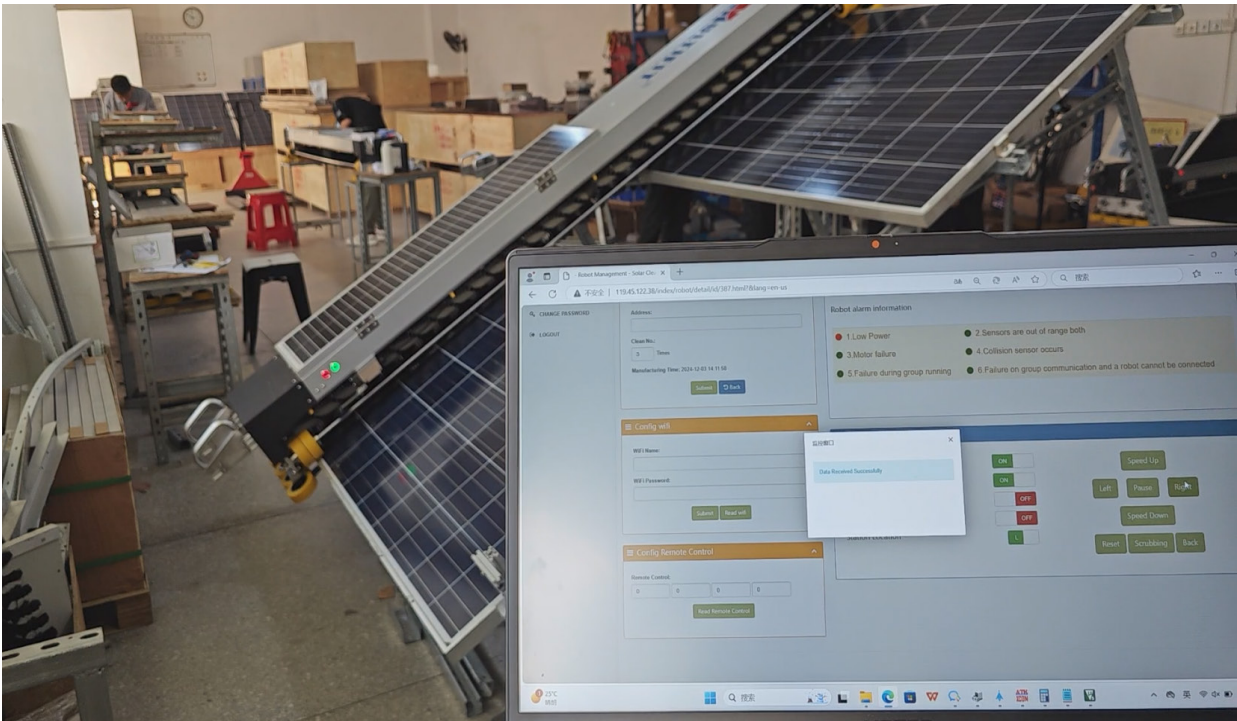
Improve Energy Production



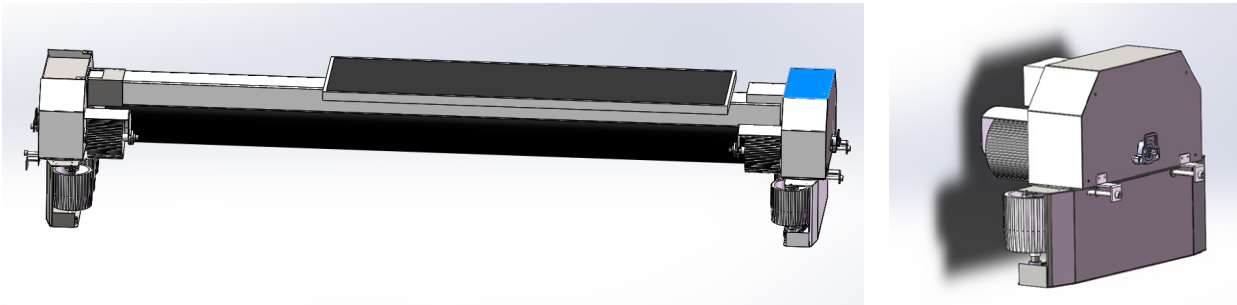
Improve Efficiency

SOLAR ROBOT DEVELOPMENT

In order to solve above problems, Multifit Solar had developed many different kinds of cleaning robots suitable for different solar power stations. Its included Tracking Solar Cleaning Robot,Right& Left Solar Cleaning Robot, Up & Down Solar Cleaning Robot, Shuttle Solar Robot Transfer Vehicle, Semi-Automatic Solar Cleaning Brush,etc.



Multifit Solar had set up Smart Remote Control and Management Cloud Platform for our patent cleaning robot.In the process of intelligent cleaning, robots can automatically detect, track, locate, communicate and control groups, to meet the demands of different kinds of devices control and management.

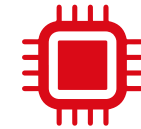


MR-G3

Right & Left Solar Cleaning Robot

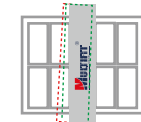


Characteristics of MR-G3 series



4g Intelligent Control

Remote control, can be organized, can be independently controlled, can set automatic cleaning time, cleaning mode, etc.



Automatic Attitude Correction Mechanism

Automatically correct and adjust to prevent machine deviation and jamming.



Danger Avoidance

Automatic edge sensing technology to prevent the robot from sliding down and avoid danger.



1 Minute Replacement Brush

Independent innovation design modular brush disassembly structure, can achieve 1 minute replacement brush module, improve maintenance efficiency.



Self-sensing Mode

Rainy days intelligent open cleaning mode.



Return

Low power automatic return to the tarmac.



Protection

Over current, lack of power, card machine protection function.



Background Control And Fault Alarm Function

- ① Warning of obstacle failure;
- ② card machine warning; Card positioning function;
- ③ Low power warning;
- ④ limit switch state abnormal warning;
- ⑤ Overcurrent warning;

INTELLIGENT CONTROL



STRONGER OBSTACLE CROSSING ABILITY

Include slope, step and misalignment.



EXCELLENT RUNNING PROPERTY

Work with lithium battery and brushless motor, more durable.



HIGH EFFICIENT CLEANING

360° rolling brush.



INTEGRATED DRY AND WATERING CLEAN

To meet different cleaning requirement of different solar power plants.

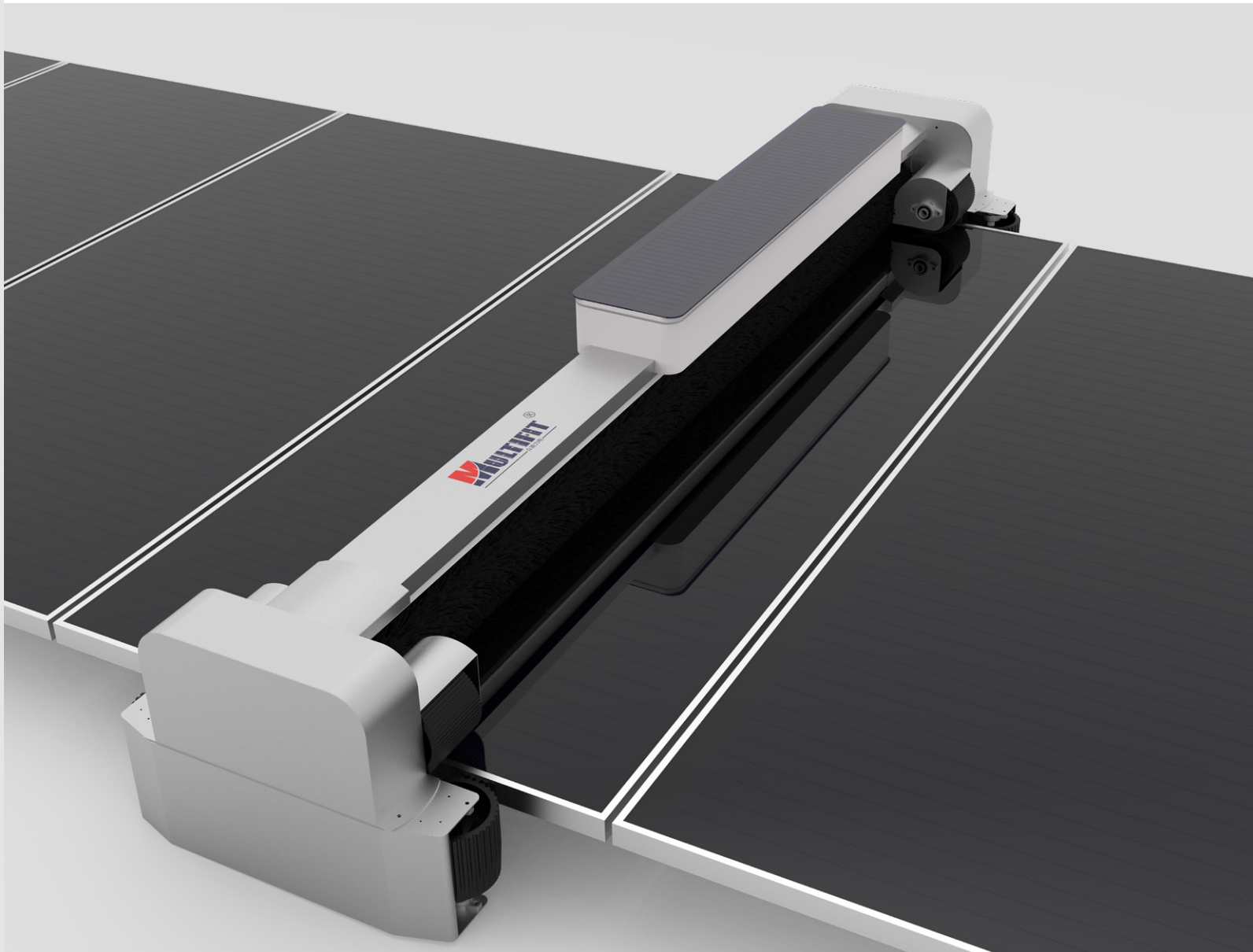


COMPETITIVE COST

Quick money return by increasing the electricity production.

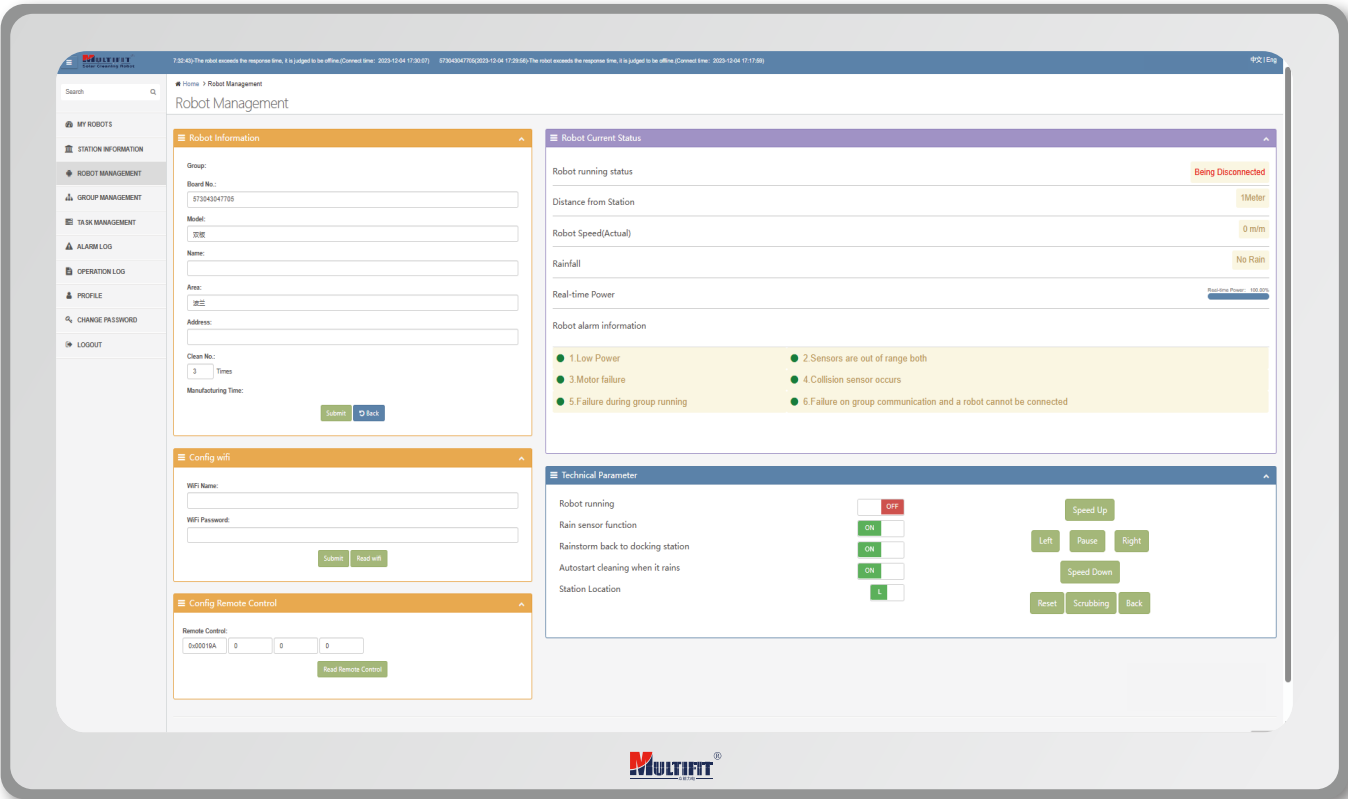
PRODUCT ADVANTAGE

The third generation cleaning robot has more advantages than the robots on the market in terms of performance, product design, intelligent control, etc., such as portability, long life, intelligent APP controller, and easy to disassemble, install, adjust and maintain brushes.



CONTROLLER/REMOTE SMART MANAGEMENT CONTROL SYSTEM

Smart Management Control System



Remote Control

Start at any time, stop at any time, scrub repeatedly, where there is no network, you can use the remote control to start and operate the solar panel cleaning robot.



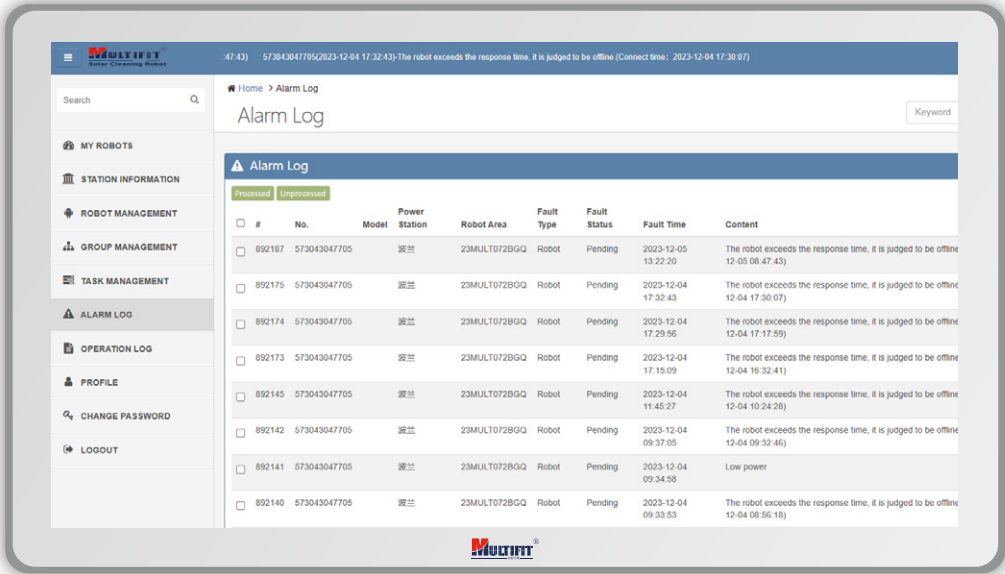
REMOTE SMART MANAGEMENT CONTROL SYSTEM

Platform

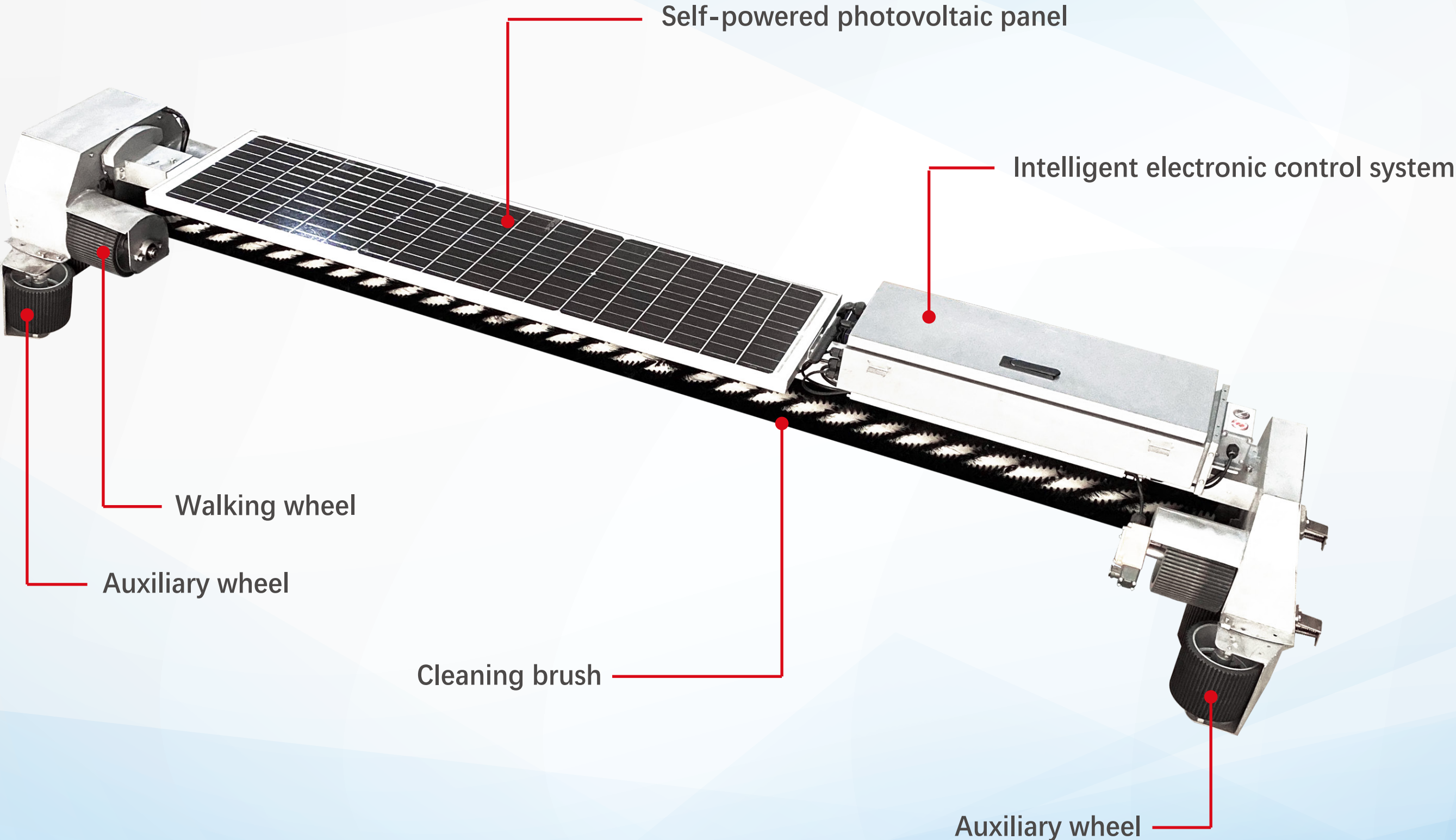
Fully Automatic.

No need for you to be on site.

Multiple cleaning robots work simultaneously.



PRODUCT DETAILS



TECHNICAL PARAMETERS

Rated power	100W/200W/300W
Rated voltage	24VDC
Brush size	Outer diameter Φ130mm (length customized according to the site)
Travel speed	12-20m/min (m/min)
Water consumption	270-330L/H
Self-charging board power	Board: 60W Dual board: 60W x 2
Torsion Angle	±20°
Angle of climb	≤20°
Obstacle clearing ability	Transverse ≤50mm, longitudinal ≤50mm
Power supply mode	self-powered
Lithium battery capacity	24V/10Ah (Single board) 24V/20Ah (dual board)
Full charge working time	4-6H (hours)
Cleaning method	Dry cleaning/washing
Cleaning mode	Once/multiple times/Scrub/ regular cleaning

