

Intelligent Cleaning Of PV Power Station PV Cleaning Robot







Product Technical Parameters

Product net weight 28kg	Water tank capacity 8L	Battery Parameters 25.2V 25.6AH
Product size 720*720*210mm	Rolling brush length 666mm	Battery type Lithium battery

720*720*210mm	666mm	Lithium battery		
Power Supply				
Full battery Time	6h Quickly change Battery			
Charging Time	5h Battery remove and charging Euro & JPN standards			
Water Source				
Water Adding Method	Quick plug and replace water tank			
Water Endurance	Regular 1h Adjust water quantity according to pollution degree			
Work Enviroment				
Temperature	0~55C Module Temperature 0~30C			
Protection Grade	IP55			
Operation Time	Morning 、Evening、Cloudy day、Light rain			
Cleaning Capac	city			
Cleaning rate	Maximum 300m² / h 350KW / Day			
Clean pollutant	Floating dust, Cooperate with neutral detergent to clean moderate oil stain			
Manual Assistance	≥3 sets/person To change water tank and battery			
Working Condi	tion			
Applicable angle	Standard 0~20° Premium 0~30°			
Type of power station	Flat ground 、Cement roof、Color steel tile power station			
Module	Conventional aluminum frame AL frame			
Control Performance				
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Automatic visual control	Software OTA upgrade	APP (Android、IOS)	Built map to work
Log & faultinformation	Keep sweeping for change water	Remote control assistance	Night work

Cleaning path planning for arrays

The robot automatically recognizes he array type and module size, and independently plans the cleaning path to ensure the cleaning effect and operation.

Light weight and without detriment to panels

Total weight is within 28kg by the deep optimization of its ownweight. And the long-term operation without detriment to panels as the third-party testing.

• High rate of cleaning

With the intelligent loating cleaning technology and trajectory optimization design to ensure the dust on PV modules panels is stratified and cleaned, and the dust cleaning rate exceeds 98%.

• Intelligent anti-skid and anti-drop technology

The cleaning robot with a combination of structure, sensor, and intelligent control to ensure the stable operation on the smooth slope and the edge of array .The long-term test has no risk of slipping.

• Night vision function

Stable cleaning at night by optimizing design with lighting and vision sensor, greatly improving the efficiency of cleaning operations.

• Modular design

The modular design of the equipment, the fuselage, cleaning head, battery and water tank can be quickly combined and installed, which is convenient for transportation and assembly.

