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Photovoltaic Operation and Maintenance Robot







Overview

Photovoltaic operation and maintenance robots are mainly used for cleaning photovoltaic panels in rooftop distributed and ground centralized photovoltaic power stations. It mainly solves the problem of robots realizing cross-group and cross-row operations in this application scenario, and better reflects the characteristics of long service life, stable operation and management, and low application cost of robots. It can help customers realize unmanned autonomous cleaning, inspection and other operation and maintenance work of photovoltaic panels in centralized photovoltaic powerstations.

Technical parameters

Photovoltaic operation and maintenance Robot	
Basic configuration parameters& dimensions	
Overall machine quality	2000mm-4200mm (height)
speed	50KG
load	5cm/s
Endurance	20KG
distance	1000m
Protection level	IP65

Product Features

 <p>For waterless cleaning, choose a flexible dust-repellent brush that rotates at high speed to clean the photovoltaic panels; achieving waterless cleaning will minimize the possibility of damage to the photovoltaic panels caused by cleaning.</p>	 <p>Intelligent obstacle crossing It adopts a multi-wheel transmission mechanism, large-sized high-quality pneumatic-free tires and an upper and lower guide wheel mechanism; it can adapt to obstacles with a plane misalignment of the photovoltaic panel within 20mm, a continuous curvature height difference within 1000mm, and a plane height difference within 40mm.</p>	 <p>Intelligent identification of cleaning effects enables self-evaluation and precise correction to avoid the formation of hot spots on photovoltaic panels. Robot self-fault detection and early warning; Photovoltaic panel cracks, abnormality identification and early warning.</p>	 <p>The return operation time is at night to avoid blocking the photovoltaic panels due to shutdown of the robot; the cloud platform is remotely controlled; the robot returns to recharge after losing power.</p>
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Product Advantages

<p>Solve the problem of cross-connection and cross-row cleaning of photovoltaic cleaning robots between photovoltaic</p>	<p>It realizes unmanned and waterless cleaning, and the cleaning effect can be self-evaluated and accurately corrected to avoid the formation of hot spots on photovoltaic panels.</p>
<p>Robot self-fault detection and early warning; photovoltaic panel cracks, abnormality identification and early warning.</p>	<p>The operation time is at night to avoid blocking the photovoltaic panels due to the robot being shut down; the cloud platform is remotely controlled; the robot returns to recharge when it loses</p>
<p>Robotic operations are cost-effective: low laying costs and good use benefits.</p>	<p>The robot body and auxiliary parts have a long service life: no less</p>
<p>The robot is light in weight and easy to construct on site. Both construction and operation have little dependence on the PV panel structure, causing no harm. There will be no scratches, fracturing or other damage to the photovoltaic panels during cleaning, and it meets the IP65 waterproof standard.</p>	