

Trinabot

Aurora
PV Cleaning Robot - 2P

"Aurora"

PV Cleaning Robot - 2P

Suitable for Fixed Structure



Intelligent Algorithm for Auto-Correction

- Height Tolerance: 50 mm
- Longitudinal Deviation: 50 mm



Modular O&M

- The modular design allows for flexible maintenance and upgrades, making it adaptable to diverse PV plant conditions and operational needs.



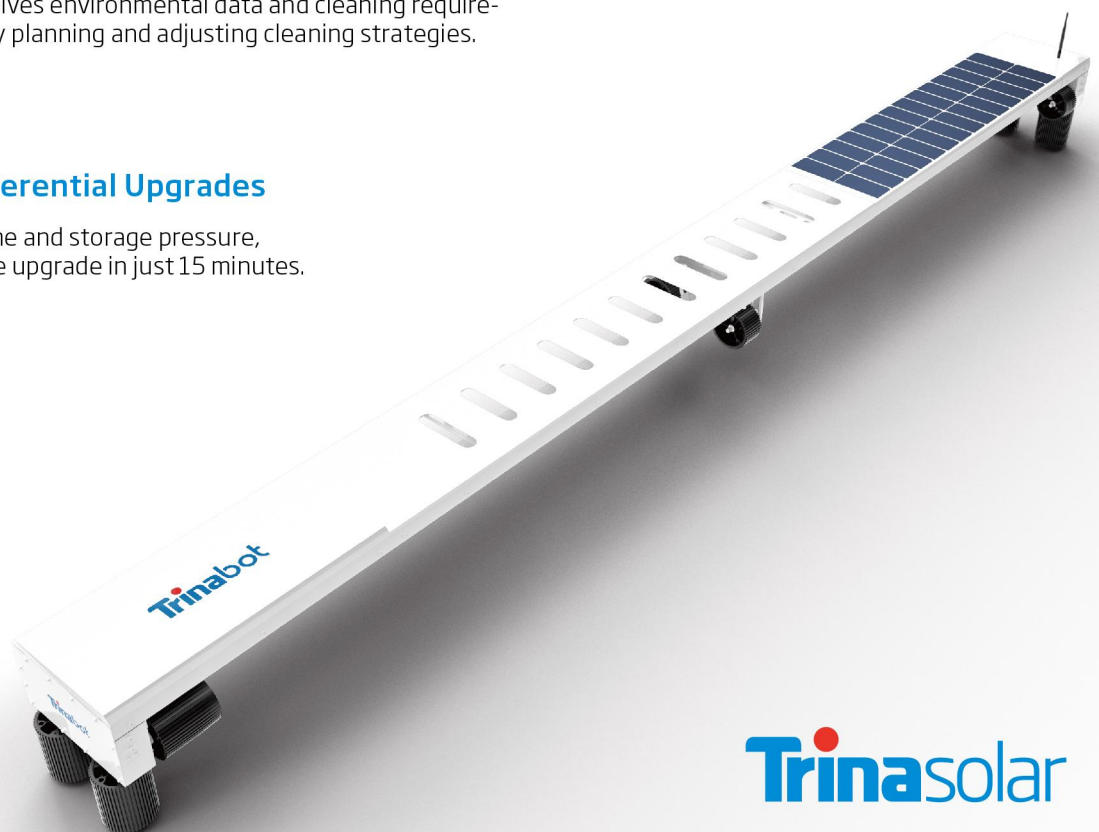
Autonomous Cleaning Decision-Making

- Independently perceives environmental data and cleaning requirements, automatically planning and adjusting cleaning strategies.



OTA Remote Differential Upgrades

- Reduces upgrade time and storage pressure, completing a full-site upgrade in just 15 minutes.



"Aurora" PV Cleaning Robot - 2P TECHNICAL PARAMETERS

GENERAL FEATURES

Dimensions (L×W×H mm)	L*450*350 (L≤6000)
Weight (kg)	65-70
Rated Power (W)	≤240
Maximum Operating Distance (m)	>2000
Operating Speed (m/min)	20±2
Power Supply	Self-charging
Battery Type/Capacity	LFP 20Ah
Standby Ambient Temp.	-30°C~65°C
Operating Ambient Temp.	-20°C~60°C
Relative Humidity	0~95% Non-condensing
Applicable Module Tilt Angle	0~60°
Working Angle	0~45°
Maximum Climbing Angle	Max 25°
Tolerance of module vertical offset	50
Tolerance of module horizontal offset	50
Cleaning Efficiency	≥99.5%
Availability	≥99%
Cleaning Frequency	Once/day
Communication	LoRa+ Bluetooth
Communication Protocol	Custom protocol
Monitoring Terminal	Web + APP
Operating Wind Speed (m/s)	15m/s
Maximum Wind Resistance (m/s)	55m/s
High Wind Protection	YES
Protection Rating	IP65
Corrosion Resistance	C4M
Life Cycle	25 Years

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