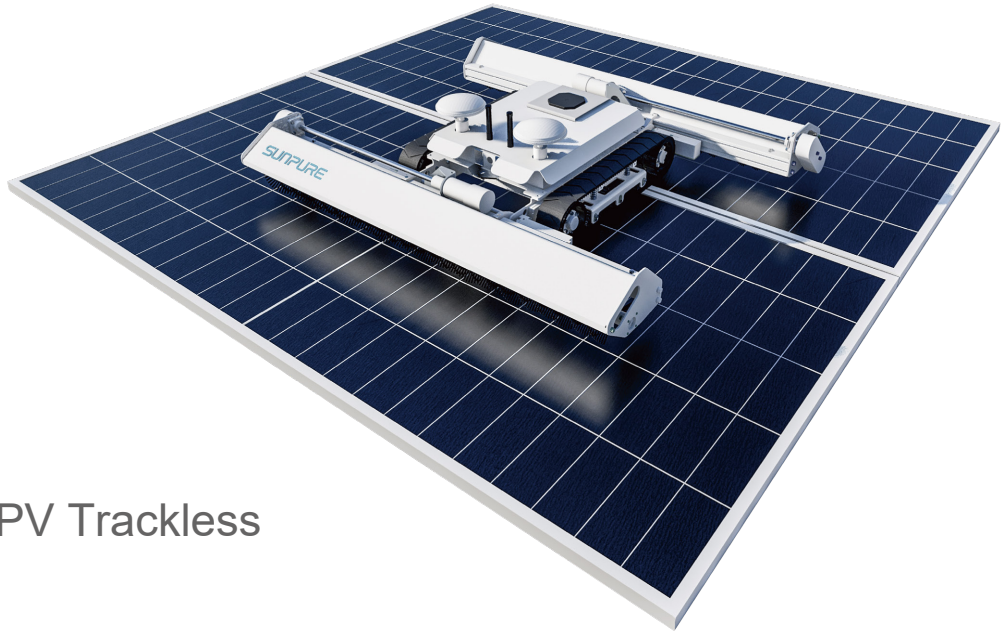




Mars

PT200

Fully-automated PV Trackless
Cleaning Robot

L5 Autonomy level



Autonomous

Multi-sensor fusion positioning enables fully autonomous cleaning



Centimeter precision

High-accuracy positioning combined with an optimal path algorithm ensures full-coverage



Fast wireless charging

Secondary positioning technology and wireless charging enables precise docking and fast recharging

Faster, more efficient



Dual-brush to maximum capacity

Two-brush system (front and rear) delivers up to 1800m²/h coverage with 99.5% cleaning efficiency



Path memory, breakpoint resumption

Memorizes cleaning paths and seamlessly resumes after auto-recharging



Modular convenience

Plug-and-play design enables quick brush replacement and easy maintenance

Safety & Durability



Anti-fall protection

Intelligently detects module edges to prevent falls, ensuring safer operation



Stable & reliable

IP65 dustproof and waterproof resistance with 8-year lifespan

General and mechanical

Dimensions	780mm * 731mm * 316mm
Weight	30 kg (without brush)
Brush length	900mm / 1175mm / 1300mm
Brush weight	8kg / 9kg / 10kg
Max cleaning capacity	1800 m ² /h
Max traveling speed	25 m/min
Cleaning type	Dry cleaning
Life cycle	8 years
Warranty period	1 year/2400 hours
Ingress protection	IP65
Rated power	360 W
Rated voltage	24 V
Battery capacity	30 Ah (customizable)
Battery life	2000 cycles
Working duration	4 h
Charging time	3 h
Charging method	Wireless charging

Adaptive capability

Operating mode	Autonomous
Cleaning angle	0°~ 15°
PV sub-array crossing	Via bridge structure
Tolerance of module vertical gap	40 mm
Tolerance of module horizontal gap	120 mm
Working ambient temp	-20°C~ 60°C

Communication and management

Network type	4G + WIFI + LoRaWAN
Management platform	SmartPure
Night time operation	Yes
Resumes at break-points	Yes
Monitoring terminal	Web + APP
Positioning	Based on RTK global positioning
Positioning accuracy	±1 cm
Fall prevention	Virtual fence + ultrasound

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