

ease-i A product by aplos ventures

HARNESS CLEAN ENERGY TO THE FULLEST

A100N





ABOUT aplos ventures

Aplos Ventures Private Limited is based in Navi Mumbai, Maharashtra. Its mission is to minimize the cost of cleaning of solar PV panels and reduce O&M expenses of solar PV Plants.

ABOUT ease-i A100N

Aplos Ventures' new dry robotic cleaning equipment, ease-i A100N is a new age robot that aims to maximize energy generation, increase plant efficiency, and reduce O&M cost.



ADVANTAGES

- 01** Ultra-soft PBT bristles with water resistance properties enabling all weather operation
- 02** 4-wheel drive powertrain system
- 03** Automotive grade Aluminum frame
- 04** Entire system powered by new generation LFP battery technology
- 05** Minimum assembly on site thus saving commissioning deployment time
- 06** Lightweight & Durable design



A100N SPECIFICATIONS

DESCRIPTION	SPECIFICATION
Robot Model Name	ease-i A100N
Robot Configuration	1P Autonomous (exclusive for Nextracker)
Frame Type	AL 6063 Monocoque Welded
Robot Weight	48 Kg (+/- 2 kg)
Panel to Panel Gap (without additional bridge)	Up to 200 mm
Docking Station to Panel Angular Difference Covered	+/- 3 degree
Table to Table Angular Difference Covered	+/- 10 degree
Slew Drive Bridge Transition	Yes
Smooth Transition over Slew Gear, Bearing Protrusion & Antenna	Yes
Cleaning Speed	15-18 meter/min
Distance Travelled per Single Charge	Upto 5 Km
Cleaning Method	Dry Cleaning
Cleaning Tilt	5-60 Degree
Installation Type	Single Axis Tracker (1-in-portrait)
Wind Speed Resistance (Static)	47 m/s
Wind Speed Resistance (Operation)	15 m/s
IP Rating	IP 65
Corrosion Resistant Properties	Upto C4
Max Ambient Temperature	5 to 55 Degree
Drive System	4 drive BLDC motor & 1 Brush BLDC motor
Brush Type	Ultra-soft bristles
Charging Mechanism	Auxiliary Module; String tapping (optional)
Battery Type	Lithium Iron Phosphate (LFP) Battery
Communication	LoRa interface (for communication with master controller/gateway)
Health Monitoring Dashboard	Cloud Based Dashboard for health monitoring, predictive maintenance & schedule cleaning
Other Supporting structures	Docking, Reversing and Bridges



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