



Solar Street Lightning Cleaning robot

ESSI

Solar panel efficiency will be decreased greatly if the dust, sand, bird droppings, or other particles have accumulated on the panel. Our SSL cleaning robot is an autonomous robot that is installed on the solar panel to reduce the running cost of cleaning the solar panel and keep the system efficiency maximized

Tests

- 1- It has been tested for different types of sands, natural dust, construction sand, desert sand, and wet sand. It has efficiently cleaned all these types of sands without even scratching the panel.
- 2- The robot has witnessed accelerated test by doing continuous cycles and it has done about 8000 cycle which is equivalent to about 10 years of operation.
- 3- the robot was exposed to several obstacles and different weather conditions and it managed to pass all of them with zero damages

Features

- 1- The robot length and width are designed based on the overall solar panel area installed on the pole.
- 2- A special rack is fixed in the panel to hold the robot in place.
- 3- The robot speed is 3.5m/min.
- 4- Energy consumed is 7Wh/day.
- 5- The robot performs 3 cycles per day (every 8 hours), the cycle contains moving from the rest position until the other end and then returns back to its rest position.
- 6- The power source is the battery installed on the pole.
- 7- Waterproof designed robot.
- 8- Least height of the robot and specified place for the robot to park in to prevent shading.
- 9- The robots is IOT based device which is connected to a cloud to display its status and the status of the solar system if needed.

Warranty 3 Years

contact us

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