



Builbot Systems



SOLOROBO

AUTOMATIC WATERLESS RESIDENTIAL SOLAR ROOFTOP CLEANER

Introducing Solorobo, the cutting-edge automated system designed to enhance the efficiency and lifespan of solar panels. This smart device comes with a microfibre roller that removes dirt well without the need for water. With its careful cleaning features, Solorobo makes sure that every part of your solar panel is cleaned thoroughly and effectively every day. This means that your solar panel will produce the most electricity possible and last longer.

Traditional Solutions

Manual Cleaning



Semi Automatic



Sprinkler System



COMPARATIVE ANALYSIS

SOLOROBO

Low cost

Zero maintenance

Light weight (10-25 kg)
for (2-10 meter length)

Small size (width=220mm)

Easy installation

No external power required

Water free cleaning
(dry clean)

WATER SPRINKLER SYSTEM

Low cost

Requires some maintenance

Light weight

Small size

Complex installation

External power is required

Water cleaning

OTHER AUTOMATIC CLEANING SYSTEMS FOR SOLARPARKS

High cost

Low maintenance

Heavy weight (50-70 kg)
For (2-6 meter length)

Large size (width>500mm)

Easy installation

No external power required

Water free cleaning (dry clean)



MISSION

Our mission is to help customers maximize their investment in solar energy by providing them with the most efficient and effective cleaning solution. We believe that by using Solorobo, our customers can not only save time and money but also contribute to a more sustainable future.



VISION

Our vision for Solorobo is to become the go-to solution for solar panel cleaning worldwide.



Automatic



Daily Cleaning



Cost Effective



Safe



Cloud Basedx

0%

Soiling Loss

100%

Waterless

30-35%

Efficiency improvement

95%

Thorough cleaning of solar modules

10-15L

Potential annual revenue upside for a 5mw plant

SOLOROBO SSP-100

MEASUREMENTS

LENGTH	ADAPTIVE LENGTH UPTO 10 METERS
WIDTH	240 MM
HEIGHT	210 MM
TOTAL WEIGHT	<35 KG FOR 4 METERS SYSTEM

PERFORMANCE

NOMINAL CLEANING SPEED	UPTO 15 METERS PER MINUTE
BRUSH TYPE	MICROFIBER
MOVEMENT TYPE	HORIZONTAL
PRODUCT MATERIAL	ALUMINIUM, PLASTIC
POWER REQUIREMENTS	SELF POWERED

BATTERY

TYPE	LI-ION BATTERY, 24V 10AH
BATTERY BACKUP	2 HOURS
SELF CHARGING	BY INBUILT SOLAR PANEL 30 WATTS
LOW BATTERY DETECTION	YES

OPERATION/CONTROL

MODE	FULLY AUTOMATIC / MANUAL
END STOP SENSOR	2 ON EACH SIDE
POWER SWITCH	ON/OFF SWITCH ON BOTTOM SIDE
MANUAL-START/STOP	START AND STOP SWITCHES FOR MANUAL MODE
DISPLAY CONTROL	ON BOARD FOR PARAMETERS MODIFICATION
REMOTE MONITORING	GSM / RF BASED

MAINTENANCE

FABRIC REPLACEMENT	(6 - 12 MONTHS)
BATTERY REPLACEMENT	(1 YEAR WARRANTY) (LIFE SPAN UPTO 3 YEARS)

SOLOROBO RSP-100

MEASUREMENTS

LENGTH	ADAPTIVE LENGTH UPTO 10 METERS
WIDTH	160 MM
HEIGHT	130 MM
TOTAL WEIGHT	<15 KG FOR 4 METERS SYSTEM

PERFORMANCE

NOMINAL CLEANING SPEED	4 METERS PER MINUTE
BRUSH TYPE	MICROFIBER
MOVEMENT TYPE	HORIZONTAL
PRODUCT MATERIAL	ALUMINIUM, PLASTIC
POWER REQUIREMENTS	SELF POWERED

BATTERY

TYPE	LI-ION BATTERY, 12V 5AH
BATTERY BACKUP	2 HOURS
SELF CHARGING	BY INBUILT SOLAR PANEL 30 WATTS
LOW BATTERY DETECTION	YES

OPERATION/CONTROL

MODE	FULLY AUTOMATIC / MANUAL
END STOP SENSOR	1 ON EACH SIDE
POWER SWITCH	ON/OFF SWITCH ON BOTTOM SIDE
MANUAL-START/STOP	START AND STOP SWITCHES FOR MANUAL MODE
DISPLAY CONTROL	ON BOARD FOR PARAMETERS MODIFICATION
REMOTE MONITORING	GSM

MAINTENANCE

FABRIC REPLACEMENT	(6 - 12 MONTHS)
BATTERY REPLACEMENT	(1 YEAR WARRANTY) (LIFE SPAN UPTO 3 YEARS)

CONTACT US



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