EVERGREEN[™] Solar Portable Light





Our Solar Evergreen Carport / Portable light have many application from Gazebo, bus stop, detached carport, outdoor kiosks, comping tents, boats and any remote locations where grid is a challenge. Our Solar Evergreen Carport / portable light comes with standard and flexible solar panel for curved surface installations.

- Our carport / Portable light comes with standard and flexible solar panel for curved surface installations. Our carport light also has the ability for solar scalability enables adding panels for demanding weather conditions.
- Using High power LED light source with advanced design to make our carport a super bright luminous efficacy fixture of 130 lumens per watt.
- The variable lighting mode function is designed with the advanced microwave motion sensor.
- Built in battery, charge and discharge over 1000 times.
- The light automatically switches off on at dusk and switches off at dawn. 50% permanent lighting, when motion is detected power turns to 100%
- MC4 plug in connection.
- 130 Lumens per watt and IP68 rated
- 2 Years limited warranty on all components.



12W 23.6" / 18W 23.6" / 24W 35.4" / 36W 35.4" / 48W 47.2"









Specifications



Advantages

- Remote setting
- Motion sensor
- Longer working times
- MC4 universal plug
- External positionable solar panel to maximize the solar radiation in different latitudes

Features

- IP67 Waterproof Rated
- Viewing Angle: 240°
- Sensor Type: Microwave
- CCT Range: 3000K 6000K

Applications

- Gazebos & Back Yards
- Boats & Boathouses
- Carports and Garages
- Areas with no electrical supply
- Construction work sites
- Recreational Vehicles & Campers

- Charge Time: 6 Hours
- Discharge Time: >24 Hours
- Working Temp: -4°F 131°F
- 12Hrs at 50% & 100% when triggered
- Temporary Shelters Outdoor & Street Kiosks
- Camping tents

Warehouses

- Remote Locations
- Bus Stops, Rideshare, & Train Stations









ТΜ **EVERGREEN** Solar Portable Light

Product Design and Benefits

The Solar Portable Light is an answer to a vast number of solar lighting applications in urban and rural living.

The Solar Portable Light has a built in Lithium battery, charge controller integrated with a high powered led source, and makes the light a unique weatherproof lighting fixture with the advantage of solar capabilities. The fool-proof MC4 plug in set up makes the light extremely easy for installation and portability. Built with high quality components, the Solar Portable Light can meet project requirements in many challenging environments.

Easy Setup

- Stable & Versatile Mounting options
 MC4 plugs connect directly to
- Sleek appearance & easy to install

solar panel

Multi-Contact Stäubli Electrical Connectors - 2.5mm² power cord



ELECTRICAL SPECIFICATIONS									
Model No.	AVS-SCL-12W	AVS-SCL-18W	AVS-SCL-24W	AVS-SCL-36W	AVS-SCL-48W				
Wattage	12 W	18 W	24 W	36 W	48 W				
Solar Panel Spec	40W / 18VDC	50W / 18VDC	60W / 18VDC	80W / 18VDC	100W / 18VDC				
Cell of PV	MONO Cell								
Battery Capacity	144WH 11.1V	200WH 11.1V	288WH 11.1V	433WH 11.1V	577WH 11.1V				
Controller Type	PWM	PWM	MPPT	MPPT	MPPT				
Charging Time			6 Hours						
Dicharging Time			>24 Hours						









Flexible Solar Panel

The Solar Portable Light comes with standard and flexible solar panels for curved surface installations. It also has the ability for solar scalability and enables adding panels for demanding weather conditions.









Microwave Sensor







Super Brightness

Using a high power LED light source with an advanced design makes the Solar Portable Light a super bright luminous fixture with 140 Lumens per Watt.

Solar Controller

Radar Sensor

Variable Lighting Modes

Constant power with full brightness, energy savingmode with dimming option and variable modes for changing brightness on time intervals can be set according to user requirements via the optional remote control.

Correlated Color Temperature











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Product Structure



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MECHANICAL SPECIFICATIONS									
Model No.	AVS-SCL-12W	AVS-SCL-18W	AVS-SCL-24W	AVS-SCL-36W	AVS-SCL-48W				
Wattage	12 W	18 W	24 W	36 W	48 W				
Operating Temp	-4°F to 131°F								
IP Rating	IP67 Waterproof								
Solar Connection	MC4 male & female plugs								
Panel Size	25.1 x 16.5 x 1.1"	27.5 x 21 x 1.1"	25.1 x 23.2 x 1.1"	29.9 x 25.1 x 1.1"	39.3 x 25.1 x 1.1"				
Dimensions	3.7 x 3.3 x 23.6"	3.7 x 3.3 x 23.6"	3.7 x 3.3 x 35.4"	3.7 x 3.3 x 35.4"	3.7 x 3.3 x 47.3"				







Application









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Optimum Panel Orientation

The Solar charge in a battery pack won't last forever. The off–grid system relies on stored solar energy for autonomy. Angling your solar panels properly can boost the power intake of your solar lighting system. You want to angle your solar panels at a tilt based on the area's latitude.

Tip for Maximum Power

You can increase the tilt 15° in the winter or decrease 15° in the summer. In this way you can get the maximum sunlight to recharge the battrey.

Best Facing Direction of Solar Panel



The area will dictate the installation of the fixtures and will sometimes prevent the lights from facing south. Panels facing West & East won't get as much light as Southern facing panels, but will stillcollect a good amount of sunlight. A North facing panel also works, but it will take longer to charge than any other direction. This would mean that the solar charge will be less optimal if installations are facing North.









Optimum Panel Orientation







