

USER MANUAL



ALL IN ONE SOLAR STREET LIGHT

MATTERS NEEDING ATTENTION

- ◆ All-in-One SSL uses long lasting LiFePo4 or Lithium Ion battery packs to store energy. Optimal discharge conditions are at temperatures ranging from -20°C to $+75^{\circ}\text{C}$, battery performance will deteriorate beyond this range. Please make sure the local extreme temperature does not exceed the above condition when choosing the SSL.
- ◆ LiFePo4 or Lithium Ion battery packs once fully charged can store charge/energy for up to six months. Check the battery in time after long time transport or storage, or in case of it not being used as the battery may be damaged.
- ◆ When Installing SSL, position the solar panel should be south facing as much as possible in order to get maximum energy and avoid all kind of shadow & obstacles such as trees, building walls etc.. as it will reduce the generation efficiency of the solar panel, and lead to SSL's working time being shortened.
- ◆ "All-in-One" solar panel surface's cleanliness also affects the energy generation efficiency of the solar panel. So, its surface needs to be cleaned from elements such as dust, leaves, greasy dirt, etc. using a normal cleaner or solar scrubbing tools available in the market.
- ◆ SolMitra's SSL is made compliant to IP65 grade (Rain & weatherproof design) .Do not immerse into water. Ventilation holes and cracks on the shell are specially designed for the cooling and drainage. Metal parts are all made of corrosion resistant aluminum or stainless steel, which can tolerate the various environmental effects, high heat, high humidity and dryness in the air.
- ◆ LED light source has long service life; general failure rate is extremely low. Dirt cleaning of the whole light source is needed when using for 2 to 3 years, in case the dirt resists electricity and reduces the brightness of lights.

Dos and Don'ts:



✓Shadow free



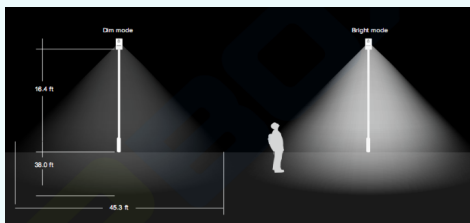
✗Shadow area



✗ shadow area

PIR (PASSIVE INFRARED SENSOR):

PIR sensor will activate if a human, animal or any living movement is detected within 8 meters radius brightness will increase otherwise less brightness.



PIR sensors functions have been developed to give a greater lighting backup.

INSTALLATION PROCEDURE

Precautions:

- Mount the light on vertical 90° pole using the given mounting clamp.
- Please refer to the SSL specs before purchasing the pole or call our sales support team. Diameter of the pole depends on the light model purchased.
- Switched ON (During Sunlight) : Luminary LED will be OFF.
- Switched ON (After Sunset) : Luminary LED will be ON.

LED Indications:

- Switch ON - Red LED blink (once).
- Battery Charging - Green LED blinking.
- Battery Discharging - No LED Indication.
- Battery 100% Charged - Continuous Green LED.
- Battery 100% Discharged - Continuous Red LED.

Note: Keep the original box safe to be used for replacement/repair if needed. Without which no warranty is covered/new box cost levied upon the sole discretion of the manufacturer.

Installation Steps:

1) Remove the Light from the packaging. (Fig1)

2) Place the light upside down on soft surface. (Fig 2)

3) Line the clamp with the pre-drilled holes and use the Allen key to screw the clamp into the underside of the panel (Ensure that the screws are not too tight as it may cause a problem on a very hot day as metal may expand).(Fig 3)

4) Once the light and the clamp have been fixed together, kindly ensure that the light is switching on.

- Fig 4: Remove the fuse from the front plate and securely install it onto the street light.
- Fig 5: Light should switch on bright as in the figure.
- Fig 6: Raise the light as shown in the picture to make sure light turns off when sunlight falls on the panel.

5) Once everything is done, carefully mount the light onto the pole and adjust for maximum radiation (Fig7)

6) Once adjusted, tighten the screws around the mounting clamp into the pole to fix the light firmly (Fig 8)

7) Installation Completed.



Fig. 1

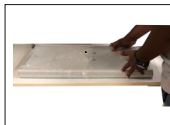


Fig. 2



Fig. 3

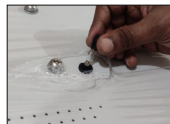


Fig. 4



Fig. 5



Fig. 6



Fig. 8



Fig. 7

TROUBLESHOOTING

Phenomenon	Cause	Checks	Solutions
Lights not working	Not switching on	Check whether the fuse is inserted properly.	Inserted the fuse.
	Battery Runs Out	Long rainy days or less than ambient sunlight may lead to the battery being insufficiently charged or no charge at all.	Charge battery by Solar Panel in day time, and remove the fuse at night to stop discharge, this will charge the battery in 2 days.
	LED Failure	If the LED doesn't work then let it charge in the morning till evening for two days without switching on in the night. Ensure to insert the fuse in the morning and remove the fuse before dark.	If LED failure continues, please contact us to for necessary repairs.
Short Lighting time	Low Battery	Check if the solar panel is free of foreign elements as it may lead to lessened charging efficiency.	1. Charge battery by Solar Panel and remove the fuse at night to stop discharge, Repeat for two nights. 2. Clean the solar panel.
	Battery failure	If there is no indication from the indication LED (neither green nor red). If the light does not switch on for more than 3 days of ambient sunlight.	1. Contact us for repairs or to buy the same type battery if battery has matured.
No Induct	Sensor failure	Move in the range of detection under the half power illumination condition, if light does not switch to full power, one could judge the sensor failure.	If sensor failure seems to be the cause, please return to our factory for repairing.
Flashing Light / Day-time light	Timer Controller	If the light is flashing and the LED bulbs are turning on/off on a repeated short occasion.	Return to our factory to reset or replace the products.
	Control Card Failure	If the light is switching on in the daytime.	Send the product to our factory for necessary repairs.



What is covered?

- Product Repair or replacement in case covered product suffers a breakdown.
- Cost of repair or logistics will be borne by us.
- Ensuring standardised Repair service from authorized service partners.
- Cost of parts.
- Cost of labour.
- Cost of delivering the service at home or transporting the product for Repair.



What is not covered?

- Products that do not carry an existing manufacturer's warranty.
- Physical or accidental damage of any kind that causes internal or external components to malfunction.
- Issues arising on account of liquid/water immersing.
- Issues arising out of wear and tear of the covered product.
- Breakdown due to any accessories not originally provided by the manufacturer.
- Issues or costs arising due to unauthorised repair.

