

HIGHLIGHT HL-SL-AUR series

USER MANUAL

- LED Street Light & LED Flood Light



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Important Safety Information

Save These Instructions

This manual contains important safety, installation and operating instructions.
The following symbols are used in this manual to indicate potentially dangerous conditions or mark important safety instruction.



WARNING

:

Indicates a potentially dangerous condition.
Use extreme caution when performing this task.



CAUTION

:

Indicates a critical procedure for safe and proper operation of the controller.



NOTE

:

Indicates a procedure or function that is important for safe and proper operation of the controller.

General Safety Information

- Read all of the instructions and cautions in the manual before installation.
- There are no user serviceable parts inside the light.
- Do not disassemble or attempt to repair it.
- Disconnect the solar module to unmount the light if required.
- Connector connections must remain tight to avoid excessive heating from a loose connection.

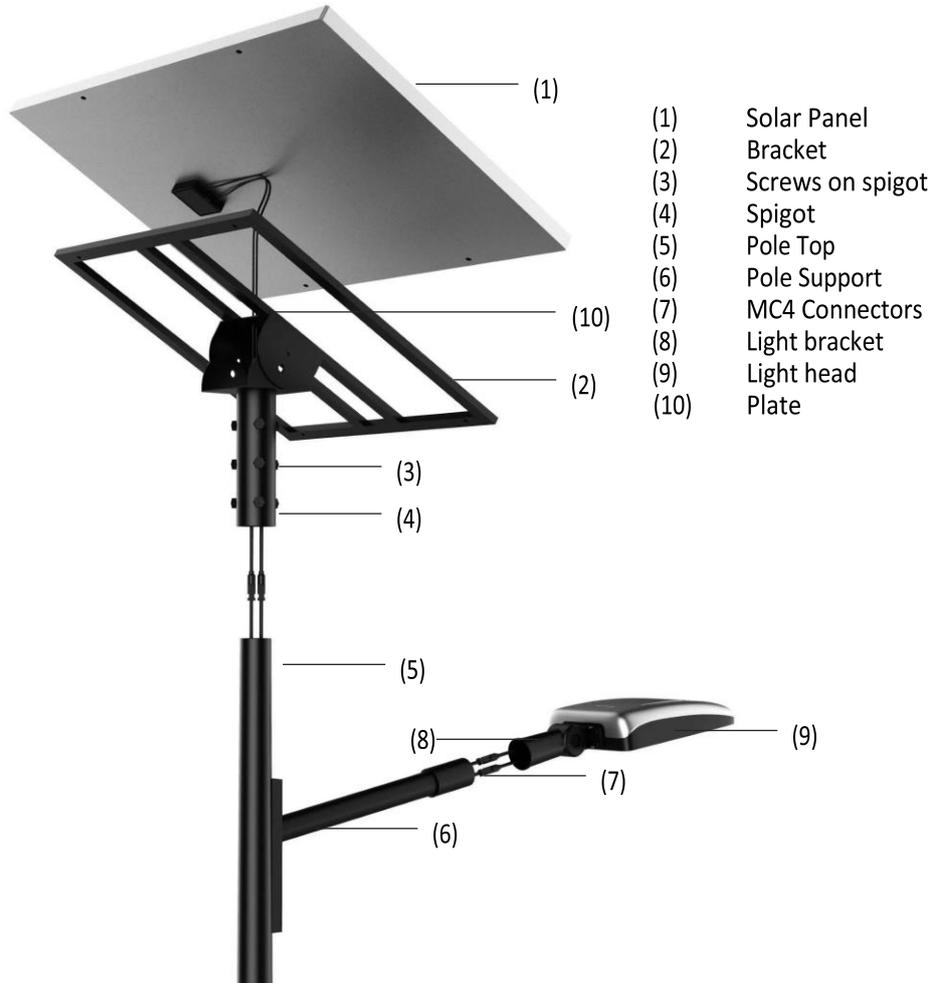


Technical Specification -Solarpath Solar Street Light

HIGHLIGHT HL-SL-AUR series

1	Light Design	HIGHLIGHT HL-SL-AUR Series is the 4th generation of all in one series with increased efficiency and advanced technology. With individual solar panel, it allows customer to increase or decrease panel power based on different project. The light comes with an inbuilt lithium battery bank and MPPT charge controller. The light has better output with more longer battery backup than the normal all in one solar lights.
2	Material	Die cast aluminum body with powder coating
3	Rated Power	10 Watts ~ 60 Watts
4	CRI	>82
5	LED Source	LED's 140 Lumen/watt
6	Light Output	Up to 8,400 Lumens
7	Optics	T5L1 Lens, 140*70 degree beam angle
8	Operation- Working Mode	Dusk to dawn
9	Luminous Lux	140 Lumen/watt
10	CCT	2700K~6500K optional
11	Battery Type	Lithium (NiCoMn)O2 battery or / LifePO4 battery
12	Solar Panel	40W~180W optional -- 18V MONO Crystalline cell
13	Weight	5.03~7.05 ft (depends on model of light luminaire)
14	Life Span	LED 150,000 hours , battery 5-7 years, solar panel up to 25 years
15	Warranty	2 years
16	Working Temperature	-4°F to 131°F
17	Pole System	Material: Hot-dip galvanized & powder coated
18	Accessories	Solar panel, bracket for mounting structure with screws, light pole with light arm and anchor bolts, (upon customer's requirements)

Installation Instruction of solar street light- Set Up



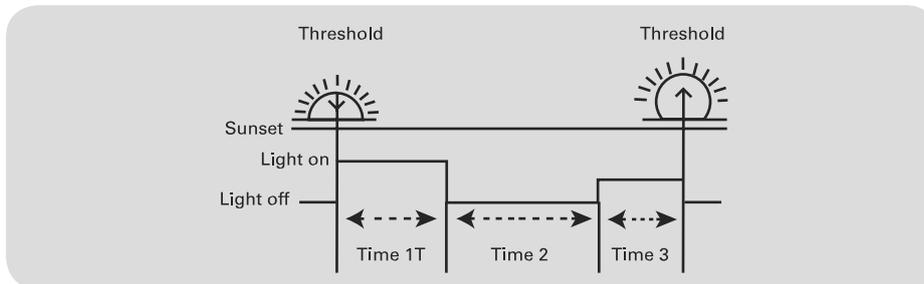
Installation Instruction

Installation Steps

1. Mounting- (1) Solar Panel to -(2) bracket with screws tightly.
2. Let -(7) MC4 cables go through- (10) plate of -(4) spigot
3. Fix -(4) spigot to -(2) bracket of -(1) solar panel with screws.
4. Insert- (7) MC4 cables of- (1) solar panel into the pole from -(5) pole top.
5. Put -(4) spigot on -(5) pole top and tight -(3) screws of -(4) spigot.
6. Pull out -(7) MC4 cable of -(1) solar panel from -(6) pole support.
7. Connect -(7) MC4 plug of -(1) solar panel and light properly.
8. Insert the -(7) MC4 plugs into -(6) pole support.
9. Fix -(9) light head on -(6) pole support and tight it with screws.
10. Check every part is connected and fixed properly.



Working Mode & ON and OFF Time



The ON and OFF functions are how the light is controlled. The light is turned on at dusk with a pre-programmed setting function and works until dawn. The lights are controlled automatically by the built-in charge controller with light sensitive timings. At sunset NTTV (Night Time Threshold Voltage) goes less than 7 Volts from the solar panel, the lights will turn ON. In the morning the DTTV (Day Time Threshold Voltage) from the panel reaches 7 Volts the lights will turn OFF.

The system also comes with a manual switch for manual operation for testing purposes.

Operation Method



Solar LED Street Light



Power Button

1. Once the installation is complete, plug the MC4 connectors in the Light to the solar panel.
2. Press the power button on the light fixture to the ON position to make the light turn on automatically after sunset (Lighting mode is set to dusk to dawn mode as default by factory before delivery).
3. The smart solar led light is now ready for use.
4. You can also use the remote control to change the lighting modes or brightness incase required. The lighting time can be selected easily by the remote controller.
5. Press the power button to the OFF position to turn OFF the light, the light will stop working, for the maintenance and transport.
6. Do not remove or dismantle the MC4 Connectors or try to plug in the light as the polarity can go wrong IN CASE OF DAMAGE OF LIGHT.
7. Do not open the light fixture by unauthorized persons, can affect the IP rating of the fixture and void the warranty.

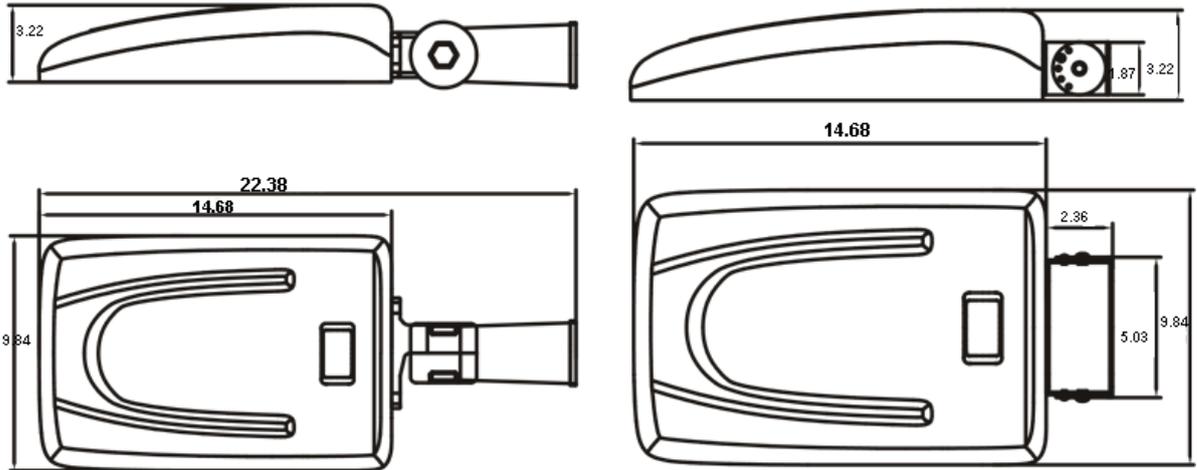


- There is a **ONE minute delay for ON / OFF** functions.
- The light will turn on only after one minute once the power on button is pressed.
- The light will turn off after one minute once the panel is disconnected or at sunset.

Any further questions, please contact us
Roy.w@solarpathusa.com

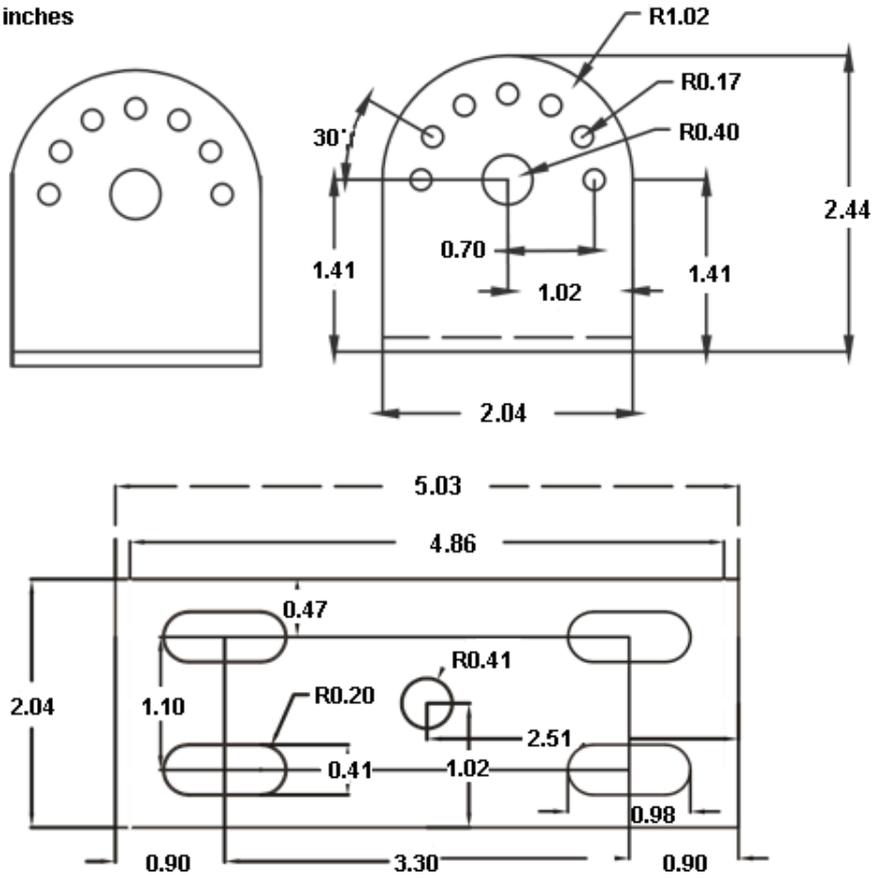
HIGHLIGHT HL-SL-AUR-Series Street Light / Flood Light

Light Fixture Dimension



Bracket Dimension of Solar LED Flood Light

Measurements are inches



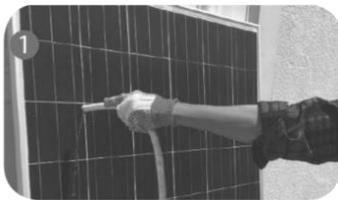
Solar Panel Maintenance Instructions (Part A)

Safety First – CAUTION NOT TO SCRATCH THE PANEL SURFACE AND ALSO NOT TO DAMAGE THE CABLE AND THE CONNECTOR

Materials Required

A good quality soft brush
Squeegee with a plastic blade
Cleaning Agent – Liquid Soap

Use a hose with a suitable nozzle to allow the stream of water to reach the panels if a water source is possible to get at the location or use the normal pressure sprayer



Cleaning Process

Running Water or Wet the Surface

Remove the dust with the soft brush. Once the dust is removed, you can apply water on the panel surface. If you have a pressure sprayer, it will be an easy option or a running water source to wash the panel surface.



Apply Soap water ONLY if Caked Stains

Apply Soap water gently if there is caked stains or bird droppings on the panel surface. IF THERE IS NO Caked stains, just running water is enough and go to the next step.



Wipe of the soap and excess water

Wipe of the soap and excess water using a rubber/ plastic soft Squeegee or wiper with a plastic blade and leave it for dry.

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Solar Panel Maintenance Instructions (Part B)

Tips for cleaning solar panel glass

- For safety reasons, it's also wise to clean your panels from the ground if possible. A good quality soft brush and a squeegee with a plastic blade on one side and a cloth covered sponge on the other coupled with a long extension can make for the perfect tools allowing you to stay on the ground.

Options



A long extension pipe is a perfect tool allowing you to stay on the ground.



Use a hose with a suitable nozzle to allow the stream of water to reach the panels.

- Clean your panels on an overcast day, early in the morning or in the evening. If the sun is beating down on the panels, any water used can quickly evaporate and dirt will become smeared.
- Early morning can be a particularly good time for cleaning as dew that has settled on the panels overnight will likely have softened grime; meaning you'll need to use less water and less energy to clean your solar panels.
- If the panels are dry, before tackling the modules with water, brush off any loose materials irst – this will make cleaning easier and faster.

DONT'S



- Don't use metal objects or harsh abrasive products for removing caked on materials – scratching the glass a solar panel can affect its performance as scratches will cast shadows
- Avoid using detergents if possible as these may streak the glass of the panel. Use of abrasive powders also risks scratching the panels.
- Given the nature of good quality solar panel glass, clean water and a little scrubbing with a coarse cloth covered sponge or soft brush should remove the most stubborn grime.

Cleaning Interval

The cleaning interval is recommended once in two months at normal weather conditions.

Maintenance

Symptom	Problem Cause	Solutions
Lamp doesn't work	Light source is damaged	Replace it with the same light source
	The battery has run down	Charging the battery
	Light doesn't work in day time	Changing the light setting with remote control
	Positive & negative of solar panel are connected conversely.	Connect the positive & negative of solar panel to a correct position.
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CONTACT US

roy.w@solarpathusa.com

Toll free: 1.888.333.SOLAR(7652)

International: +1.201.490.4499

Fax: +1.646.807.4400

SolarPath Sun Solutions
123 Town Square Pl. #333
Jersey City, NJ 07310 USA

