SL-SAL-50W SOLAR AREA LIGHT

PRIOR TO INSTALLATION, PLEASE READ THE ENTIRE INSTALLATION INSTRUCTIONS

These instructions only apply to the SL-SAL-50W INCLUDING OG, HYB, G1 OR G2.

WARNINGS
THIS LIGHT SHOULD BE INSTALLED BY A QUALIFIED PROFESSIONAL.
INSTALLER RESPONSIBLE TO ENSURE SAFE INSTALLATION, PROPER MAINTENANCE AND SAFETY CHECKS.
NOT FOR EMERGENCY LIGHTING.
NOT FOR USE IN ENVIRONMENTS WHERE EXPLOSIVE OR CORROSIVE GASES ARE PRESENT.
NO USER SERVICABLE PARTS INSIDE FIXTURE. DO NOT DIS-ASSEMBLE OR MODIFY THE FIXTURE IN ANY WAY.

NOTES
THIS SOLAR FIXTURE COMES WITH A 5 YEAR WARRANTY AGAINST MANUFACTURING DEFECTS.
THIS WARRANTY DOES NOT COVER PHYSICAL DAMAGE, WEAR AND TEAR OR IMPROPER OPERATION.
WARRANTY DOES NOT COVER NORMAL BATTERY PERFORMANCE LOSS OVER TIME.
SOLAR FIXTURE PERFORMANCE IS HEAVILY INFLUENCED BY THE ENVIRONMENT. SUNLIGHT LEVEL, EXTREME TEMPERATURES, SNOW, DIRT, AND PROGRAM SLECTION WILL AFFECT PERFORMANCE.
FOR INSTALLATIONS WHERE LIGHTING IS REQUIRED AT ALL TIMES, THE SL-SAL-HYB HYBRID SOLAR AREA LIGHT SHOULD BE USED AND CONNECTED TO A RELIABLE POWER SOURCE.

INSTALLATION REQUIREMENTS

MODEL	INSTALLATION	BASE	TEMPERATURE RANGE
SL-SAL-OG-50W SL-SAL-HYB-50W	INSTALL ON 2 3/8 INCH TENON. VERTICAL TENON PREFERRED. CONFIRM THAT POLE OR STRUCTURE WILL SUPPORT WEIGHT OF 86 LBS AND EPA OF 6.61 Square Feet. FOR HYBRID OPERATION, 120-277VAC, 50/60Hz IS REQUIRED (FOR SL-SAL-HYB ONLY). MAXIMUM POWER DRAW IS 0.63 A.	2 3/8" SLIP FITTER	Operating Temperature: -40F to 140F Battery Charge Temperature: -4F to 140F

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- LIGHT FIXTURE
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- **CARTON 2: SL-SAL-50W-2PANELKIT – SOLAR PANEL KIT**
- SOLAR PANELS (2)
- MOUNTING BRACKET KIT
- Y-CABLE
- EXTENSION CABLE
- TOOLS AND HARDWARE

PRE- INSTALLATION INSTRUCTIONS

Pre-Installation Notes:
1) The lights come programmed to operate with a standard program. At sunset, the lights will come on for 2 hours at 80% constant output. After 2 hours, the lights will transition to sensor mode with 80% high and 20% low settings, 1 minute dwell time.
2) Confirm contents listed above.
3) Select a site that gets direct sunlight and is not blocked by trees, buildings, structures etc.
4) Confirm that no light sources will shine on the solar panel during the night-time hours. The solar panel functions like a photo-cell. If there is light on the solar panel, the LED lights will not come on.
5) The light needs 1-2 days to get on the proper charge/discharge cycle. Do not expect the best performance the first nights that the light is in operation.
6) Confirm that the pole is strong enough to support EPA and weight listed above. If any extreme, or abnormal conditions exist, please take these into account.
6) Review Solar Best Practice Guidelines on the Solera-Solar.com web site under Marketing Materials.

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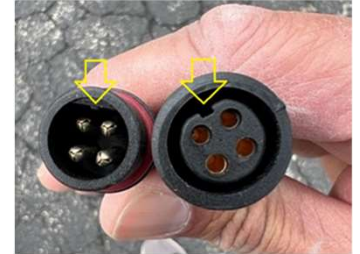SOLAR LIGHTING™

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INSTALLATION INSTRUCTIONS

Note:

Installation:

1) Carefully remove light from packaging. Be careful not to damage the solar panel. Never place the solar panel or an uneven or rocky surface. Place it on a flat surface with a towel, blanket or other type of soft material for protection. For the 50W SL-SAL, please use 1 solar panel from the SL-SAL-2PANELKIT-50W carton for initial testing.

2) Remove any protective film or coverings from the light and sensor housing. When handling the light, do not apply pressure or weight to the sensor housing.

3) Pre-test the light by connecting 1 solar panel to the light fixture. Ensure that the 4 pin connectors are properly oriented as shown in the picture.

4) With the solar panel exposed to light, the red LED in the sensor window should be either on solid or blinking.

5) Cover or place the solar panel face down. The LED panel should turn on in about 1 minute.

6) Uncover or invert the solar panel so that it is receiving light. The light should turn off in about 1 minute. Disconnect the 4-pin connector.

7) For solar panel installation, please see 2PANELKIT installation instructions on page 4.

8) Adjust the slip fitter to the desired angle by loosening the 2 bolts. It may be necessary to remove the bolts to allow further movement of the slip fitter. There are multiple holes for mounting to allow further adjustment.

9) Loosen the 4 locking screws on the sides of the slip fitter so that it is ready to be installed on the tenon.

10) The light is now ready for installation.

11) The light is programmed to operate with the default program.   The default program is set for the light to come on for 2 hours at 80% constant brightness.   After 2 hours, the light will operate in sensor mode with a low setting of 20% and a high setting of 80%. Sensor dwell time will be set at 1 minute.

    If a different program is required, please request a custom program from techsupport@led-llc.com. Please provide a quick description of the desired operation, contact name, phone, email and mailing address. We will send a remote with a custom program and instructions on how to re-program the lights.

12) For the hybrid, the electrical connection will need to be made as the light is installed. Confirm that the power meets the requirement of 120-277 VAC, 50/60 HZ with appropriate surge protection in place. Prior to installation, ensure that the power is shut off and locked out. Ensure that all regulations and codes are met.

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INSTALLATION INSTRUCTIONS

16) To install the light, place the slip fitter over the tenon and secure the 4 locking screws.

17) For the hybrid, the electrical connection will need to be made as the light is installed.

Prior to connecting, please ensure that the power is shut off and locked out.
It is up to the installer to ensure that all regulations and codes are met.

Ensure that the power is shut off and locked out. Ensure that all regulations and codes are met.
   1) Connect Black wire to Line
   2) Connect White wire to Common
   3) Connect Green wire to Ground
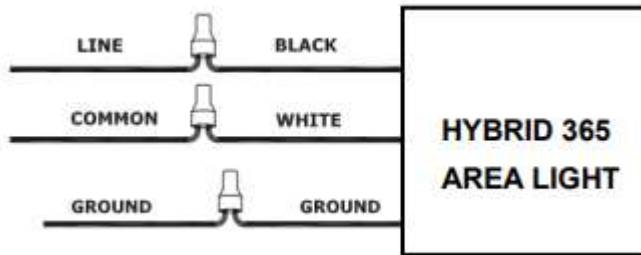
18) Make final adjustments to the fixture.
   1.) Adjust fixture orientation and tilt as required
   2.) Firmly tighten the locking and set screws on the slip fitter
   3.) Adjust the solar panel angle and tilt so that the panel is facing South,
        and is at a 35-45 degree angle.
   4.) Tighten all bolts.

19) Installation is complete. The light will come on at dusk.

20) Please allow 1-2 days for the light to charge and discharge and start operating consistently.

If assistance is required, please email techsupport@led-llc.com or call (847) 380-3540 and ask for Tech Support.

SL-SAL-50W-2PANELKIT INSTALLATION INSTRUCTIONS

Note: the installer will need to provide some brackets or hardware to complete the installation. Due to the variety of pole sizes and surface mount installation, it is not possible to provide in the 2PANELKIT.
These instructions show pole mounting. For surface mounting, place the 4 u-brackets as far apart as possible to provide maximum stability.

1.) Please read instructions prior to installation. Please ensure that you have the necessary tools and hardware on hand.
2.) The bracket is designed for universal installation. It can be wall-mounted, roof-mounted or pole mounted. Please ensure that the correct hardware is available for the desired installation. Installer is responsible for ensuring that the installation surface or pole, hardware and mounting method is appropriate for any conditions that may be encountered in that location.
3.) Recommended tools
　　　　Socket wrench with 4" extension, 16mm and 17mm deep well socket (thin wall).
　　　　Utility Knife or side cutters
　　　　Allen wrench (included in carton)
　　　　Adjustable wrench
4.) Open Carton and confirm contents
　　　　1 PC Bracket model SL-SAL-SPM-BK-G1
　　　　2 PCS Solar Panel model SL-SAL-SP-50
　　　　Y-Cable
　　　　Straight Cable (provided for convenience, not required for installation)
5.) Open bracket carton and prepare bracket for installation.
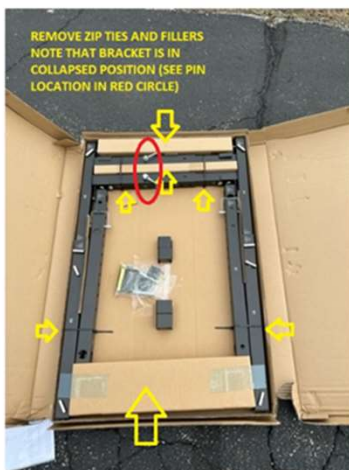
The bracket is pre-assembled to facilitate installation. It is not necessary to use or match any of the numbers or markings on the bracket.
- Remove zip ties and cardboard fillers (shown above, left image)
- Check for any loose hardware. If necessary, reinstall.
- Check and tighten hardware in 6 locations (shown above, center image)
- Remove 2 pins and expand the bracket and reinstall 2 pins (shown above, right image)

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INSTALLATION INSTRUCTIONS

6.)	The bracket is now prepared for installation. The following instructions are for pole-mounting the solar panel kit. If this kit is surface mounted, the mounting brackets should be installed as far apart as possible for stability. Please note that there are 2 large and 2 small mounting brackets. This is necessary as the crossbars telescope, and one side is larger than the other.

7.)	Confirm that the T-Bolts are loose so that it will be easy to install the solar panels later. The T-Bolts should have 1/8" to ¼" clearance at this stage.
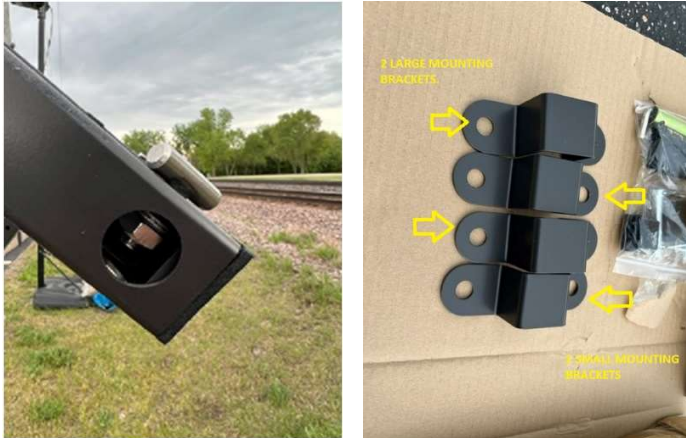
8.)	Attach top mount to pole using appropriate hardware, 1 pc of the large mounting bracket and 1 pc of the small mounting bracket.

9.)	Slightly raise the bottom crossbar (about 6-12") and install lower bracket.

10.)	The top support arms of the bracket should be at approximately 45 degrees for the solar panels to have a good orientation to the sun. the lower support arm can be adjusted to get the correct angle. If the adjustment is not sufficient, then the bottom bracket position will need to be adjusted. Please see the image on the following page for additional detail.

Note: do not over-torque the bolts as this could result in damage to the pole or brackets.

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INSTALLATION INSTRUCTIONS

Solar Panel angle adjustment.

11.)   Align the T-bolts so that the slots on the back of the solar panel will fit. Install the solar panel and then tighten all 4 T-bolts. Repeat for second solar panel.   Once the panels are installed, ensure that all 8 T-Bolts are tight.
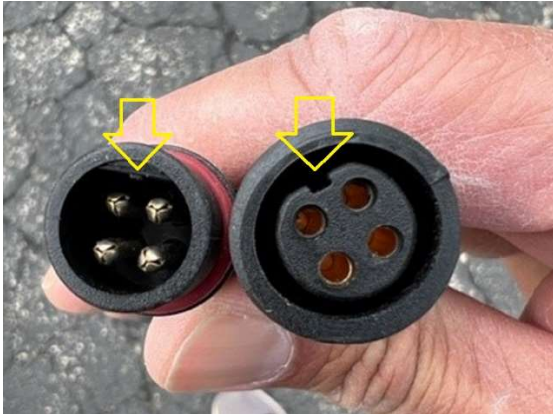

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INSTALLATION INSTRUCTIONS

12.)   On the 4 pin connectors, there is only 1 correct orientation for installation. The alignment features need to be properly aligned for proper operation. It is possible to force the connector together with the pins improperly aligned, which will cause problems.

13.)   Install the Y-Cable, using the double end to connect both solar panels. The single end will connect to the Solar Area Light. If necessary, use the straight extension cable.

14.)   Using an allen wrench and 16 or 17 mm socket, double-check that all T-Bolts and bolts are tight.

15.)   Confirm that the mounting hardware is tight.

16.)   Ensure that the cables are secured using zip-ties or similar means. Ensure that all cables have some slack, and that none are under tension.

17.)   Install the Solar Area Light, or if it is already installed, connect the solar panel cable to the Solar Area Light.

Helpful Notes:

The SL-SAL Area Lights are programmed at the factory. For a modified program, please contact Tech Support.

The Solar Area Lights are disabled until the 4-pin connector is connected.

The battery is not fully charged from the factory. Please allow 1-2 full days (charge cycles) to ensure the light is charged prior to assessing the operation.

The performance of the Solar Area Lights will depend on how well the solar panels charge the lights. Please ensure that the Solar Panels are properly oriented and clean.