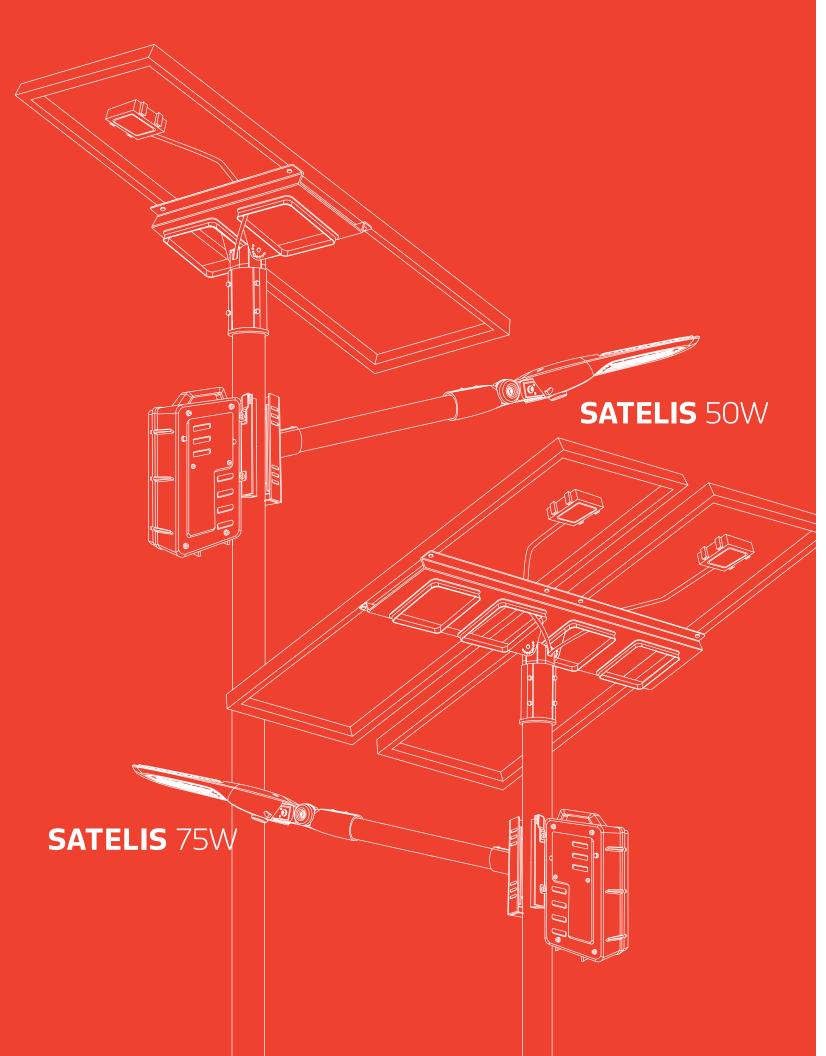
SATELIS 50W 75W Installation Manual

SOLTECH Designs and Manufactures Advanced, Solar-Powered LED Technology.





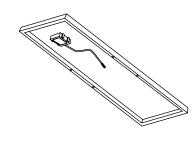
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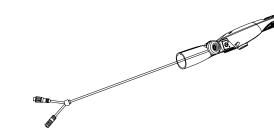
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01 Check List

SATELIS 50W

SATELIS 75W





Luminaire

Component Kit B

Component F



Battery Pack

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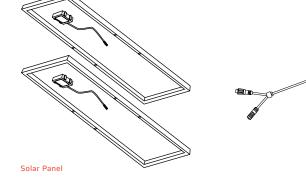
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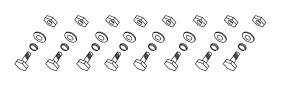
Component Kit C

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Component Kit A

Solar Panel



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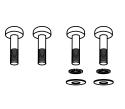
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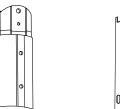
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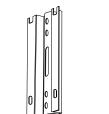
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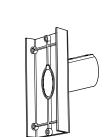
Component Kit E

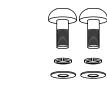
Component J





Component G

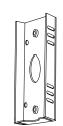


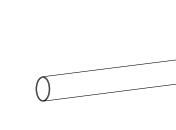


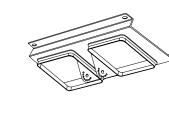
Component Kit A



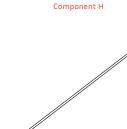
Component Kit D









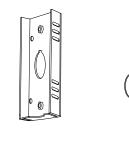




Component Kit D

Component I

Component Kit E



Component J

Component I





Battery Pack

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Component Kit C

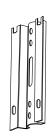
Luminaire

Component Kit B



Component F

Component L



Component G

Component H





05

02 Introduction

Thank you for purchasing SATELIS Urban Lighting Products.

Introduction

The high-performance SATELIS Series is a municipal-grade solar outdoor lighting system that provides bright off-grid light. This heavy-duty commercial dedicated series is ideal for highways, city streets, large parking lots, and area lighting. It comes in a wide choice of configurations, lighting outputs, and recommended pole heights. The Satelis series is optimized to provide years of bright, reliable light. Industry-leading efficiency, dense batteries, and advanced controls to guarantee the highest possible off-grid autonomy.

Important

In order to avoid deep discharge of the battery during storage, please fully recharge your battery every 4 months. Please make sure that the light is installed in an area with sufficient sunlight irradiance. A strict minimum of 3.5 hours/day of sunshine on average is recommended. Select the right operating mode according to the local legislation needs and the local sunshine conditions. Keep it away from shadows. Self-cleaning available when the light fixture have minimum angle of 15 degrees. Please save these instructions. Read all of the instructions carefully before attempting to carry out any installation or wiring. Do not open or attempt to repair the product on your own, as it many cause serious damage and would void the product warranty. Contact your local distributor for any questions concerning the installation.

Range of the light module on the lighting fixture is 20–26 feet (6–8 meters). The ideal installation spacing is >16 feet(5 meters). When installing two or more lighting fixtures on one pole, select desired operating mode before installation. Interference can cause delay or malfunction when using the remote control to change operating modes after installation.

Precautions when working with solar panels

When the solar panel is exposed to sunlight, a voltage appears at the output terminals of the solar panel turning it into a source of electricity. To avoid a shock hazard, make sure the solar panel is covered with an opaque (dark) later such as paper or cloth during the installation. Do not make contact with the terminals when the panel is exposed to sunlight or any other light source.

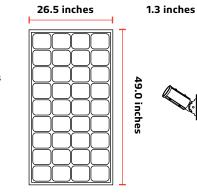
SATELIS 50W

25V 30AH

SOLAR PANEL: 21.1 Lbs SOLAR LAMP: 13.5 Lbs BATTERY ASSEMBLY: 35.2 Lbs MOUNTING FASTNER: 22 Lbs

25V 60AH

SOLAR PANEL: 21.1 Lbs SOLAR LAMP: 13.5 Lbs BATTERY ASSEMBLY: 51 Lbs MOUNTING FASTNER: 22 Lbs



SATELIS 75W

25V 60AH

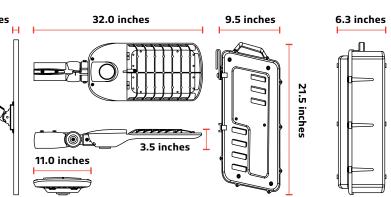
SOLAR PANEL: 42.2 Lbs SOLAR LAMP: 13.8 Lbs BATTERY ASSEMBLY: 51 Lbs MOUNTING FASTNER: 28.6 Lbs

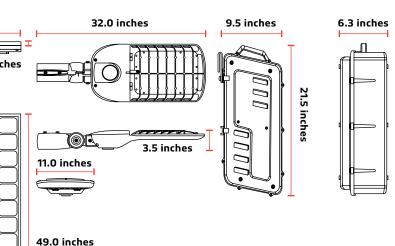
25V 90AH

SOLAR PANEL: 42.2 Lbs SOLAR LAMP: 13.8 Lbs BATTERY ASSEMBLY: 66 Lbs MOUNTING FASTNER: 28.6 Lbs

	1.3 inc

55.0 inches





03 Battery Notes

- The LiFePO₄ -battery-powered SATELIS lights are visibly brighter than other outdoor solar lights, and their performance overall is more reliable.
- 2. To charge the battery fully may take up 6 to 12 hours.
- 3. Output will be reduced to 40% when the battery is below 40% of its capacity.
- 4. Battery will stop charging when the ambient temperature is below 32°F or above 149°F.

Battery Status is indicated by the red/green indicator on the lighting fixture as follows:

- Red indicator (Charging)
- > Slow red light flashing = Charging
- > Red light continuously on = fully charged
- > Quick red flashing = charge fault
- Green indicator (not charging)
- > Green light continuously on = more than 40% of the battery capacity remaining
- > Slow green light flashing = battery capacity below 10%
- > Quick green light flashing = battery below 0% mode—Protect battery does not over discharging

Storage

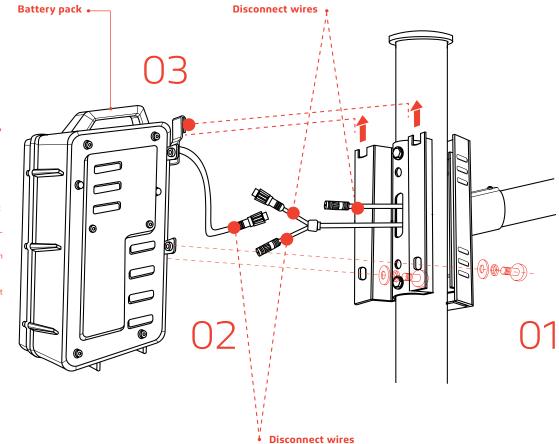
To avoid over discharge of the battery during storage, please recharge the lighting fixture every 3 months. Use the dedicated charger to charge, reset the switch when done.

Battery Replacement

- 1. Loosen the screws of the battery pack.
- 2. Disconnect the wire connectors.
- 3. Take out the battery pack.
- 4. Replace with a new one, connect the wire connectors.
- 5. Tighten the screws.

(IAP) Intelligent Adaptive Program Battery Control Technology

In order to extend the off-grid autonomy of the SATELIS under shady trees, heavy rain, and thick clouds, our controllers now integrate an adaptive smart control feature to actively track battery capacity and adjust light output accordingly. Before integrating this feature, selecting a light output percentage on the remote would yield an accurate percentage of max LED brightness. Now with (IAP), the controller actively monitors the battery and regulates the electrical current to the LEDs. The controller makes light output of the selected percentage on the remote relative to battery capacity rather than max LED output. This smart-control feature can increase our off-grid performance by up to 40%.



09

04 Installation and Wiring Compliance

05 Mounting Accessories

- 1. Installation and wiring must comply with the State and National Electrical Codes.
- 2. The SATELIS 50W and 75W models are intended for outdoor use only and should not be installed in an unventilated area, and shall be installed in an environment within the operational temperatures defined for the product.
- 3. The average sunshine in the installation area should be above 3.5 hours/day in order to ensure full function of the lighting fixture. Avoid areas with shades.
- 4. Before installation, if applicable, please ensure the light pole and its foundation are solid enough to withstand the lighting fixture(s).
- 5. Before installation, please ensure that the battery is fully charged. Install during sunny days if possible.
- 6. Before installation, please press the 🕐 ON/OFF key in the remote control and check whether it shows a red light on the indicator. Please cover the panel and check if the light module turns on normally within 1 minute.

After Installation

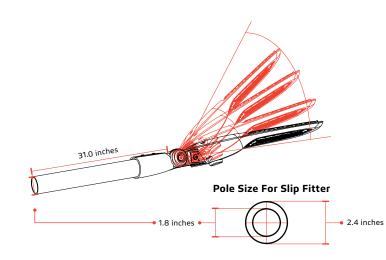
The lighting fixture will automatically turn on at night and turn off during daylight.

Important

Always orient the solar panel facing the equator (e.g. facing south if in northern hemisphere).

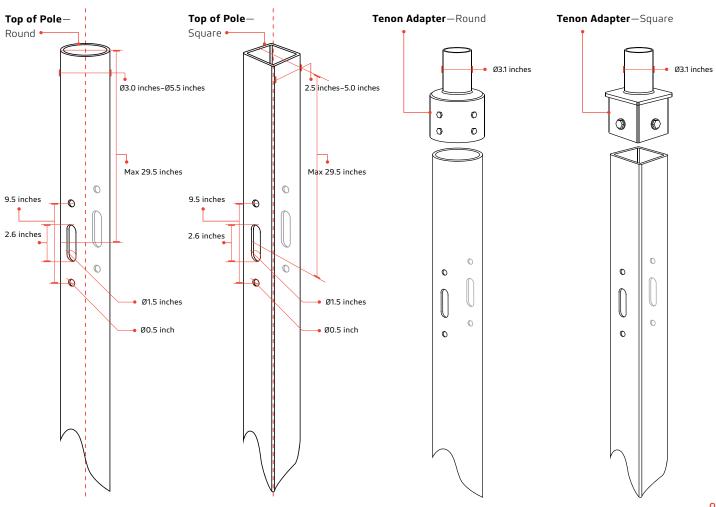
Always have a tilt angle of at least 15° to avoid dust accumulation (0°=horizontal plane).

SLIP FITTER

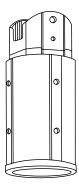


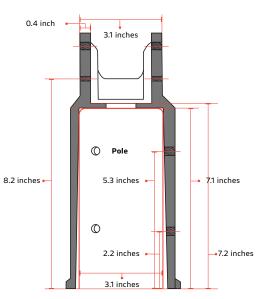
POLE ASSEMBLY

Create 2 holes (diameter 0.5 inch) in the middle of pole, create 1 hole (diameter 1.5 inch, 2.6 inch long) between the 2 holes.



SOLAR PANEL SUPPORT BASE-CUTAWAY



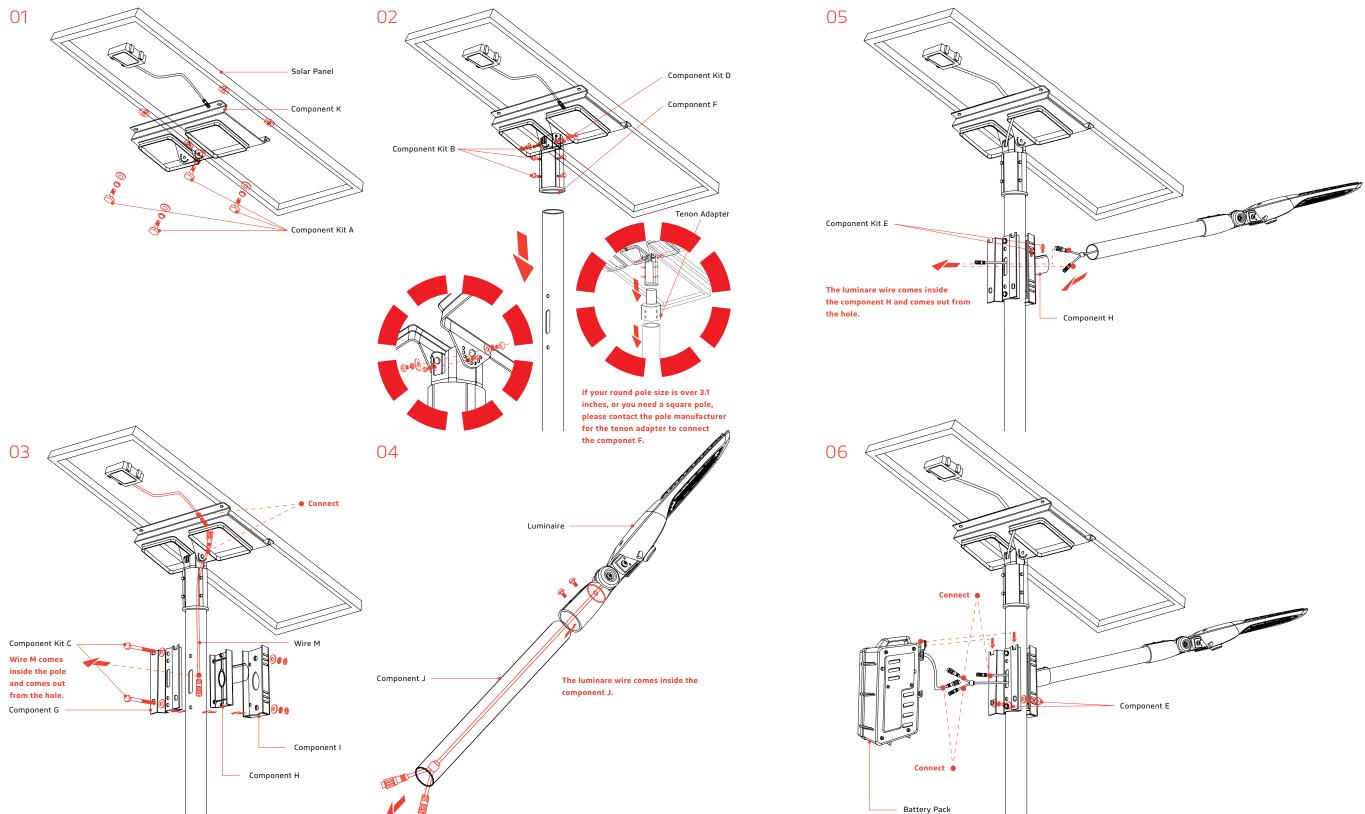


TENON ADAPTER

If your round pole size is over 3.1 inches, or you need a square pole, please contact the pole manufacturer for the tenon adapter.

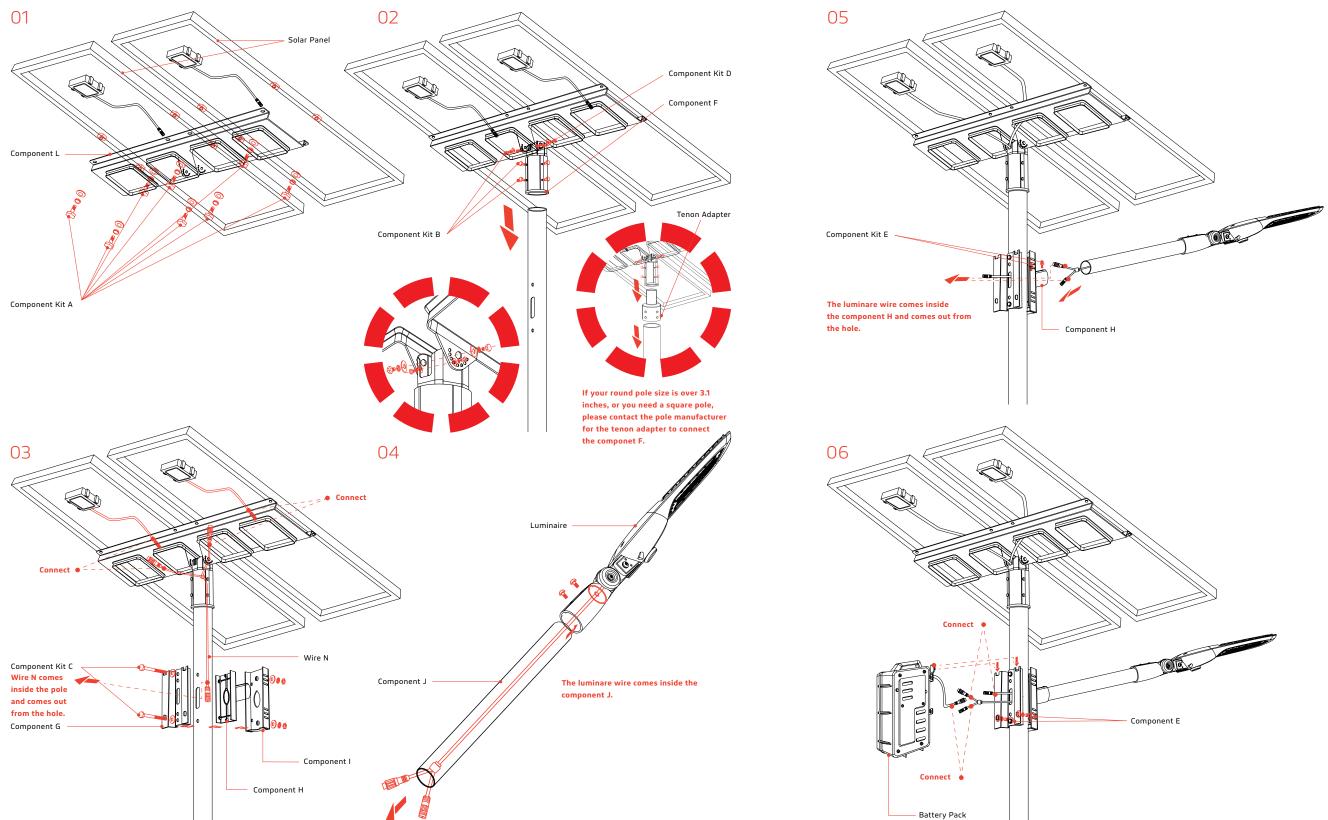
06 Installation-50W

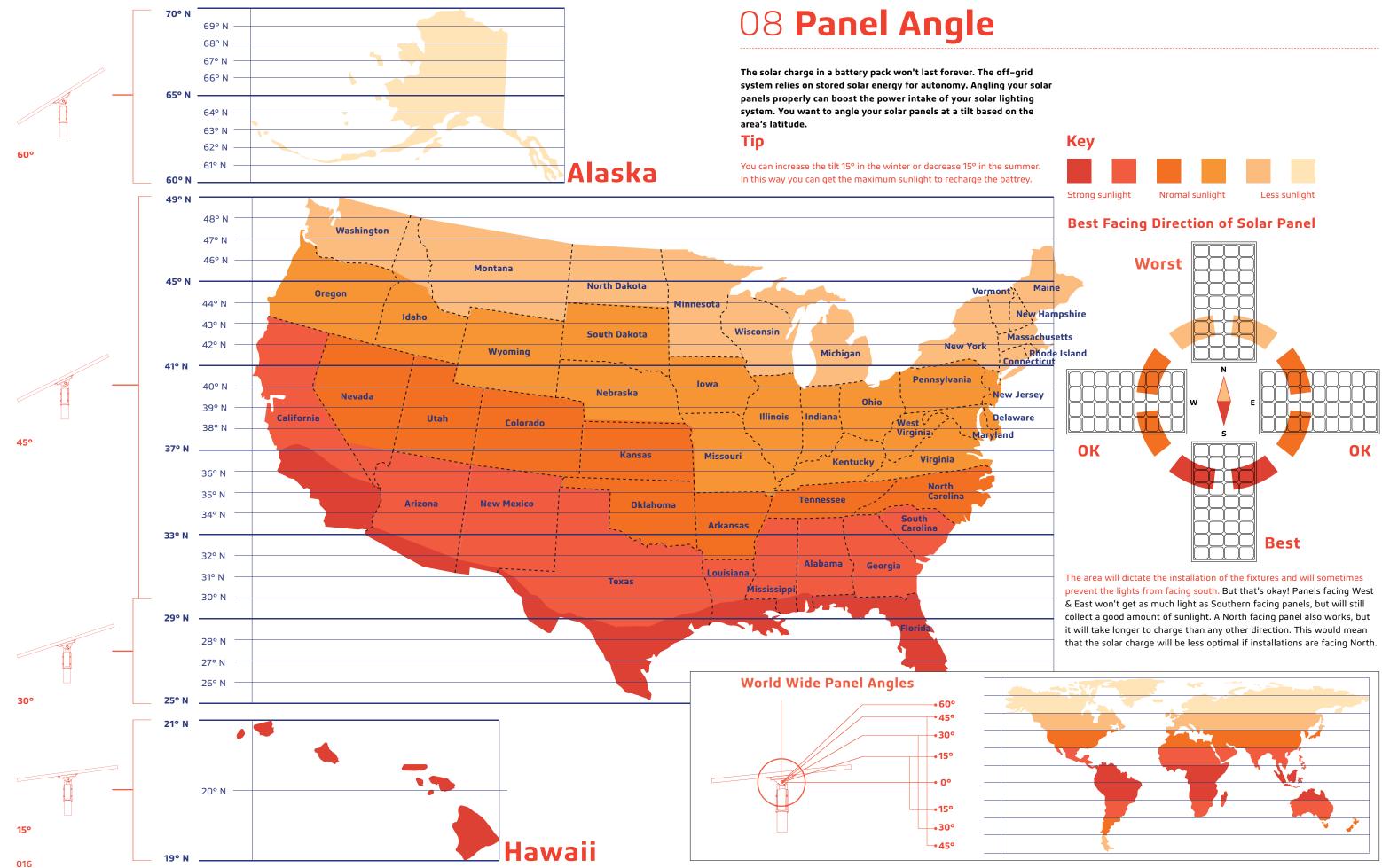
SATELIS 50W



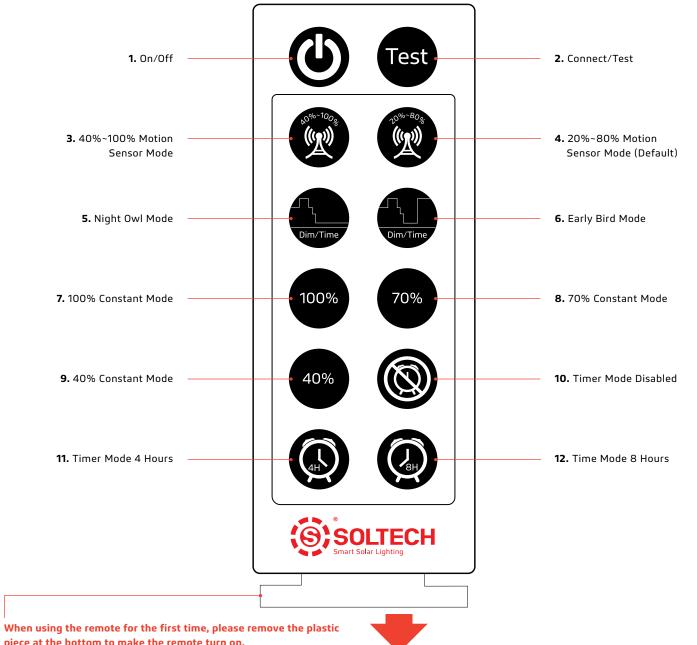
07 Installation-75W

SATELIS 75W



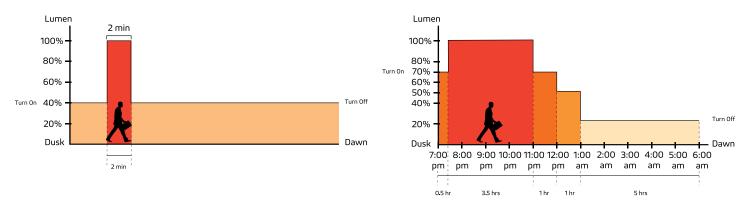


09 Remote Control Guide



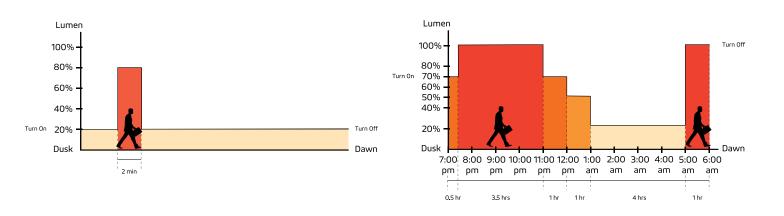
3. 40%~100% Motion Sensor Mode

Constant 40% brightness (turns on at dusk, turns off at dawn); 100% brightness turns on for 2 minutes when motion is detected.



4. 20%~80% Motion Sensor Mode (Default)

Constant 20% brightness (turn on at dusk, turn off at dawn); 80% brightness turns on for 2 minutes when motion detected.



piece at the bottom to make the remote turn on.

The range of the remote control to the indicator is 16ft (Day time) to 33ft (Night time). Because the sunlight will impact the signal of the remote control, we suggest our users to setup the mode before they install the light.

1. On/Off

When off is selected, the light will stop working. The solar panel will not charge the battery and the battery will not supply electricity to the light.

2. Connect/Test

Remote control device can be connected with any lighting fixture, one at a time. To connect, press the button once. It also functions as a test button. To test, press the "Test" button once, the red light will indicate the fixture is charging, green light indicates that the fixture is operating. Testing lasts for 10 seconds, and then it goes back to the mode previously in use.

(IAP) Intelligent Adaptive Program Battery Control Technology

In order to extend the off-grid autonomy of the SATELIS under shady trees, heavy rain, and thick clouds, our controllers now integrate an adaptive smart control feature to actively track battery capacity and adjust light output accordingly. Before integrating this feature, selecting a light output percentage on the remote would yield an accurate percentage of max LED brightness. Now with (IAP), the controller actively monitors the battery and regulates the electrical current to the LEDs. The controller makes light output of the selected percentage on the remote relative to battery capacity rather than max LED output. This smart-control feature can increase our off-grid performance by up to 40%.

16ft-33ft -

5. Night Owl Mode

Changes as natural light decreases/increases (turns on at dusk); 70% brightness for 0.5 hour, 100% brightness for 3.5 hours, 70% brightness for 1 hour, 50% brightness for 1 hour, 20% brightness for 5 hours (turns off at Dawn).

6. Early Bird Mode

Changes as natural light decreases/increases with increased brightness near dawn for early risers (turns on at dusk); 70% brightness for 0.5 hour, 100% brightness for 3.5 hours, 70% brightness for 1 hour, 50% brightness for 1 hour, 20% brightness for 4 hours, 100% brightness for 1 hour (turns off at Dawn).

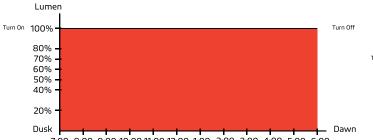
Important

Dusk and dawn time can vary for different locations and seasons. The sensors in our products will monitor the light levels where it is installed. The time period shown in the chart above is just an example to help you understand the different lighting modes.

09 Remote Control Guide

7. 100% Constant Mode

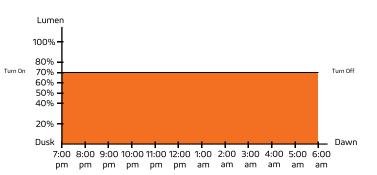
100% brightness from dusk to dawn.



7:00 8:00 9:00 10:00 11:00 12:00 1:00 2:00 3:00 4:00 5:00 6:00 pm pm pm pm pm pm am am am am am am am

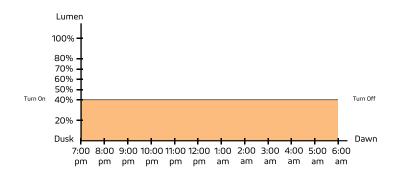
8.70% Constant Mode

70% brightness from dusk to dawn.



9. 40% Constant Mode

40% brightness from dusk to dawn.

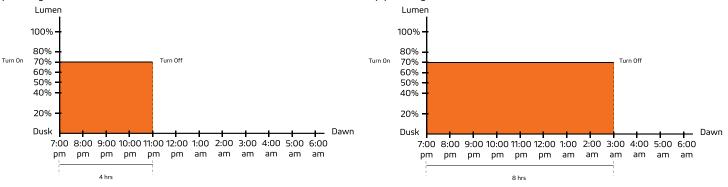


10. Timer Mode Disabled

Press this button to turn off Timer Mode; settings revert back to before Timer Mode was last activated.

11. Timer Mode 4 Hours

This is an additional mode which can work with any other modes.This is an additional mode which can work with any other modes.For example: press this button at any time after you turn on 70%For example: press this button at any time after you turn on 70%Constant Mode. If the light turns on at 7pm at dusk, it will turn offCon- stant Mode. If the light turns on at 7pm at dusk, it will turn off11pm. It will repeat the same schedule hereafter until it is canceled byon- stant Mode. If the light turns on at 7pm at dusk, it will turn offpressing Timer Mode Disabled.by pressing Timer Mode Disabled.



12. Time Mode 8 Hours

Important

Dusk and dawn time can vary for different locations and seasons. The sensors in our products will monitor the light levels where it is installed. The time period shown in the chart above is just an example to help you understand the different lighting modes. SATELIS products are covered by a 5 year limited warranty. SOLTECH urban light warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 5 years from date of purchase. To obtain warranty service please contact your local distributor or sales rep for further instruction.



1460 Park Avenue. Emeryville, CA 94608 USA

www.soltechlighting.com

SOLTECH LLC reserves the right to update all product data sheets at any time. Consult SOLTECH marketing specialists for publication updates at hello@soltechlighting.com

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