



SATELIS THERMO 50W

APPLICATIONS

SATELIS THERMO 50W is designed to withstand the most extreme weather and harsh environments. This commercial-grade series is ideal for highways, city streets, large parking lots and area lighting.

DESCRIPTION

SATELIS THERMO meets the lighting requirements for major roads and highways. It is equipped with more robust solar panels and a higher capacity, self-heating, lithium battery pack, to ensure the battery functions through harsh cold weather. SATELIS THERMO solar panels turn sunlight into electricity; when sunlight hits the photovoltaic cells, electrons in the silicon go into motion. The solar panels create energy. Electricity produced from the sun's light is then stored in the self-heating lithium battery to ensure cold weather operation for the LED fixture.

ORDERING INFORMATION

SERIES	WATTAGE	COLOR TEMPERATURE	MOUNTING OPTIONS	FINISH
STLSTDTH= SATELIS THERMO	50=50W 10000 Lumens	3=3000K 4=4000K 5=5000K 6=5700K	SF=Slip Fitter	GY=Gray BR=Bronze

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SPECIFICATION FEATURES



High-powered Panel & Lighting

- 145W Panel and 50W light fixture
- 10,000 LM and 200 LM/W. Highest efficiency in the industry
- Remote control included with one-button mode settings



Longer Life & Heavy Duty

- Grade A LifePO₄ Battery Pack up to 25V*90AH, 2000+full Charging Cycles
- LEVEL 12 Wind Test
- Self-Heating Battery



Modular & Customizable Concept

- Modular battery box with quick latching design and IP68 underground options
- Top mounting or under mounting solar panel placement options
- Reduce the installation time for construction projects
- Continuously measures the solar panel output voltage & maximizes the power that is generated



Standardized Lighting Design

- Illumination where you need it with scheduled dimming
- Meets IES standards for roadway illumination
- Solar clean energy solution that also meets street and area light requirements

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CERTIFICATION DATA



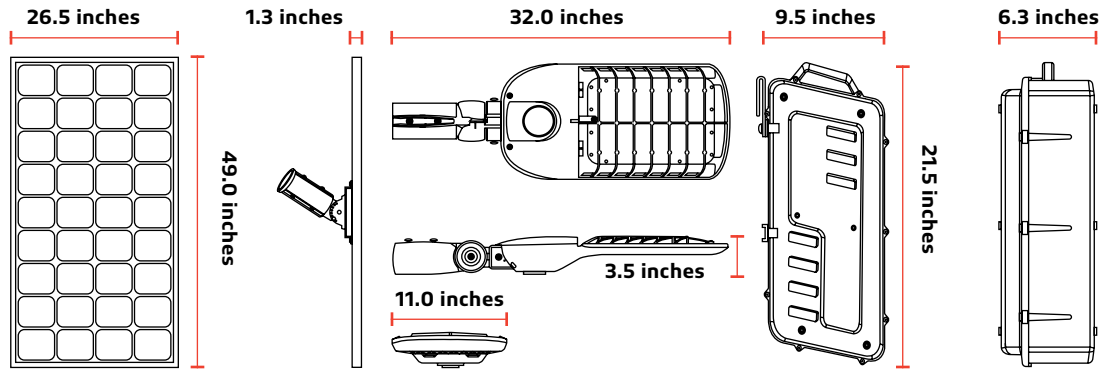


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PRODUCT SIZE

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





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SPECIFICATIONS

Specifications	SATELIS THERMO 50W
LED Nominal Power	50W
Solar Panel	18V 145W
Self-Heating Battery	691WH 12.8V 54AH
Weight	91.8Lbs
Lumen Output@5000K	10,000
CRI	> 70 (> 80 Optional)
LED Chip	Lumileds 5050 (215lm-CR>70)
* EPA@45°	11.3 ft²
Waterproof Rate	IP65
Casting	Aluminum
Efficiency@5000K	200lm/W
* Charging Time	8hrs
Operation Mode	Remote control and One-key Setting
Installation Height	15-20 ft
Operating Temperature	-4 to 122°F
Charging Temperature	5 °F to 145 °F
Maximum Autonomy@Full Power	
Motion Sensor Mode	40%-100% 30hrs 20%-80% 65hrs
Time Control Mode	Night Owl 33hrs Early Bird 29hrs
Constant Mode	100% 13hrs 70% 18hrs 40% 32hrs

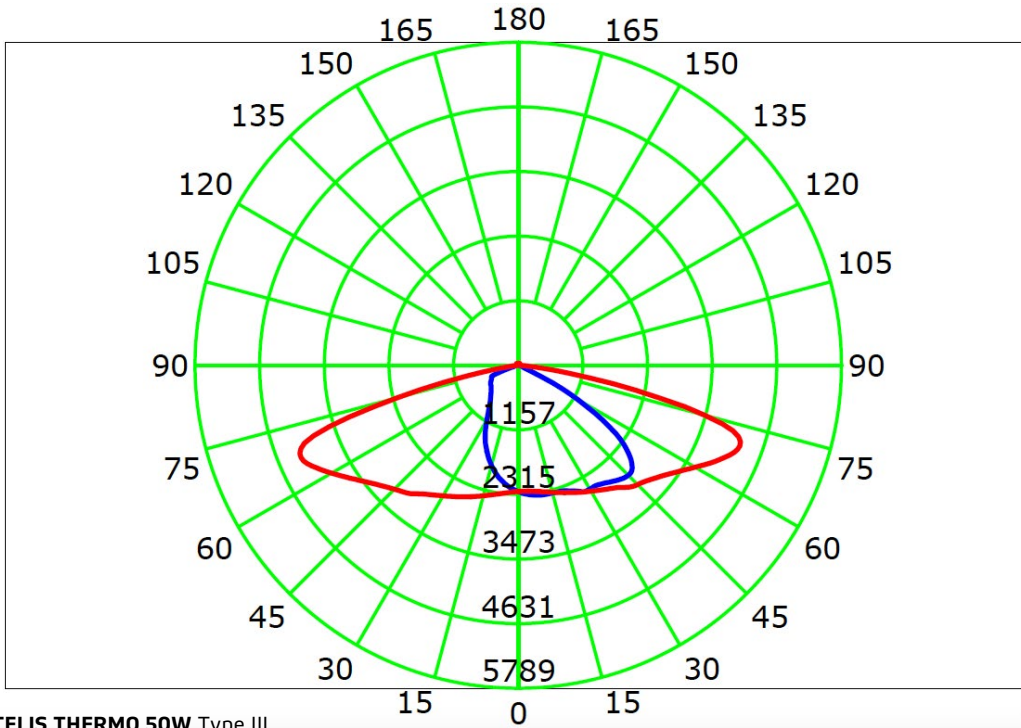
* For more information of EPA data, Please contact SOLTECH team. 45° solar panel tilt angle is not a suggested angle for all installations of SOLTECH solar products.

* The solar charge time data is base on 77 degree F ambient temperature with the panel pointed directly at the solar radiation. The standard radiation value is 1000W/m².

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IES / BEAM



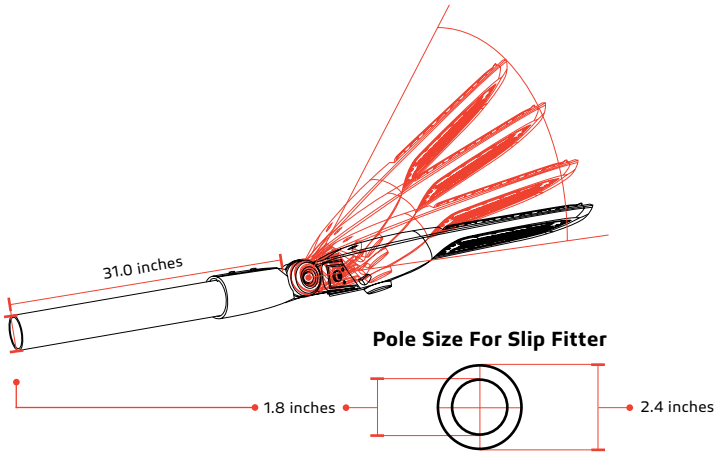
SATELIS THERMO 50W Type III

SATELIS THERMO 50W

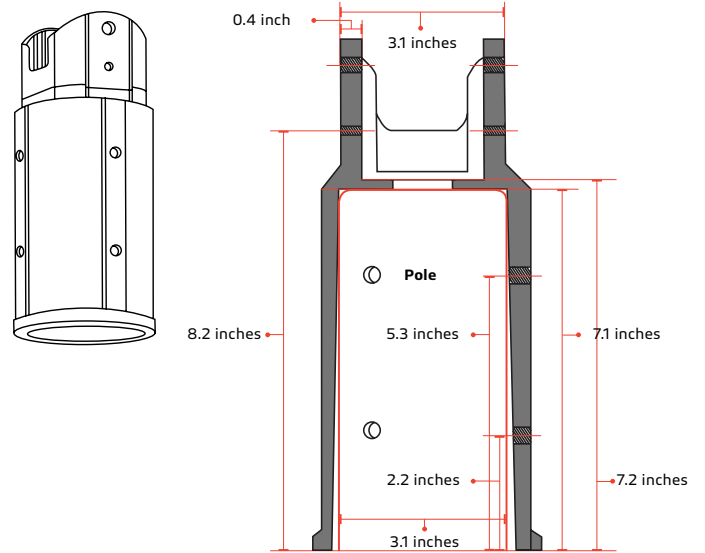
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INSTALLATION ACCESSORIES

SLIP FITTER

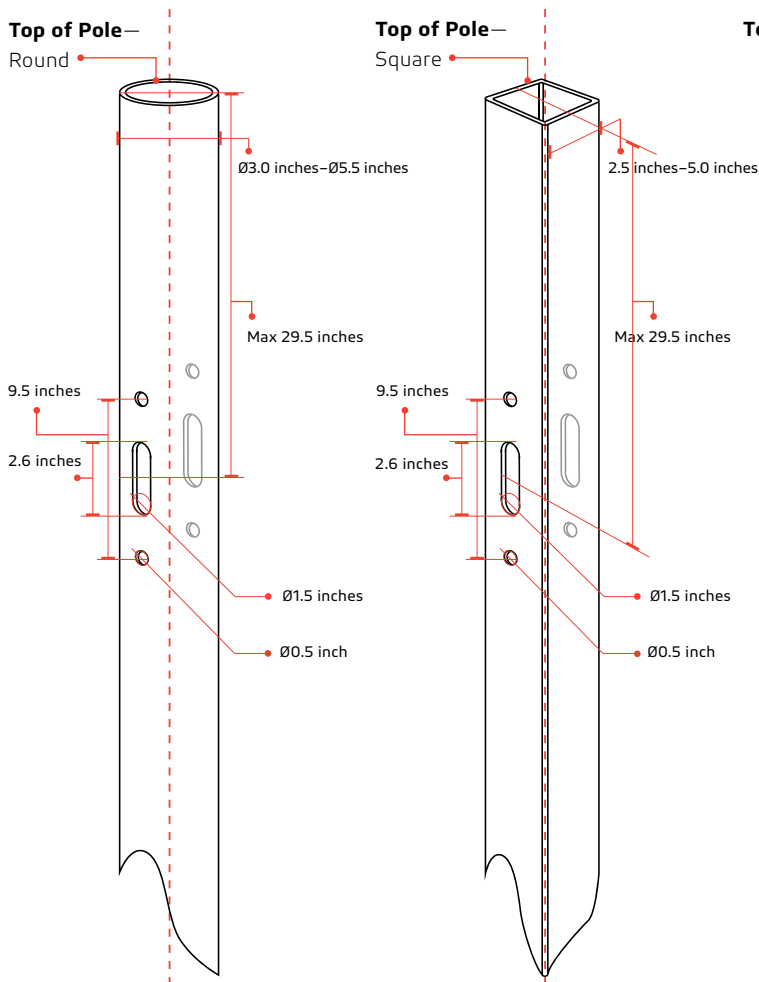


SOLAR PANEL SUPPORT BASE—CUTAWAY



POLE ASSEMBLY

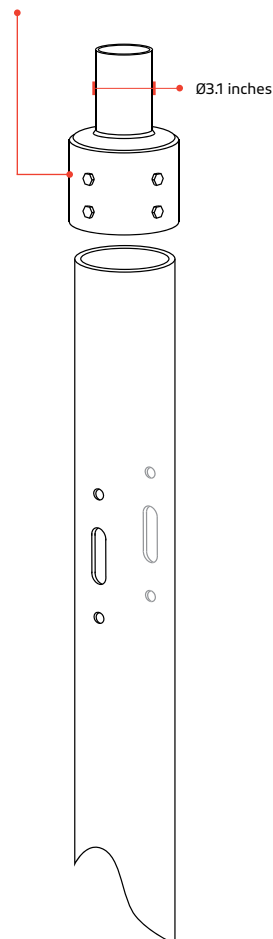
Create 2 holes (diameter 0.5 inch) in the middle of pole, create 1 hole (diameter 1.5 inch, 2.6 inch long) between the 2 holes.



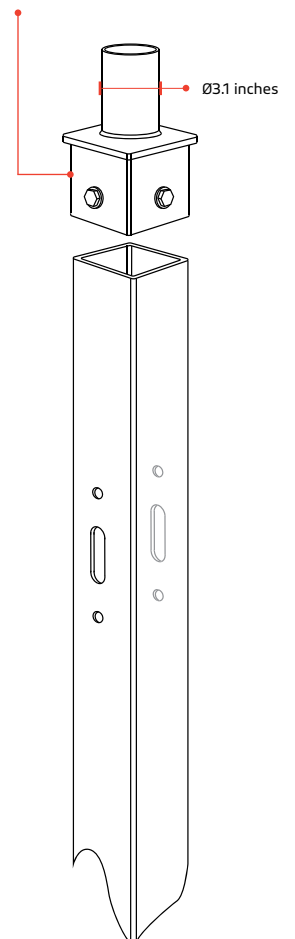
TENON ADAPTER

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.

Tenon Adapter—Round

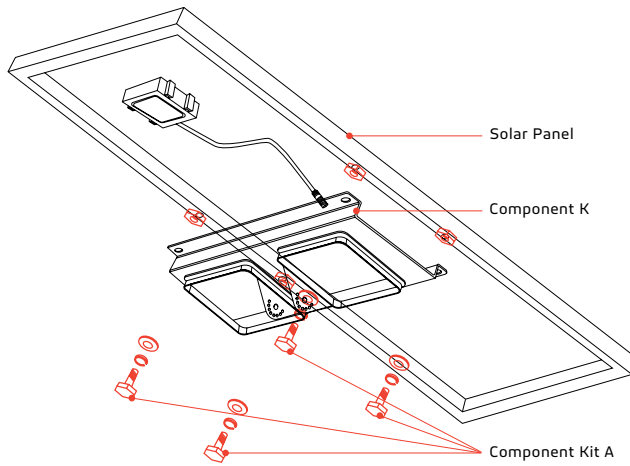


Tenon Adapter—Square

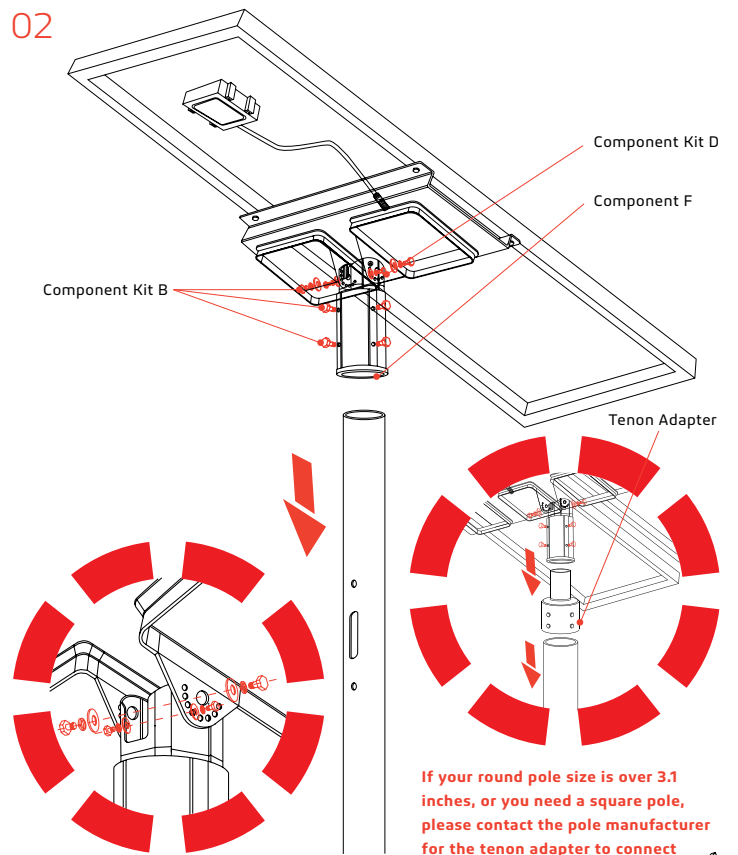


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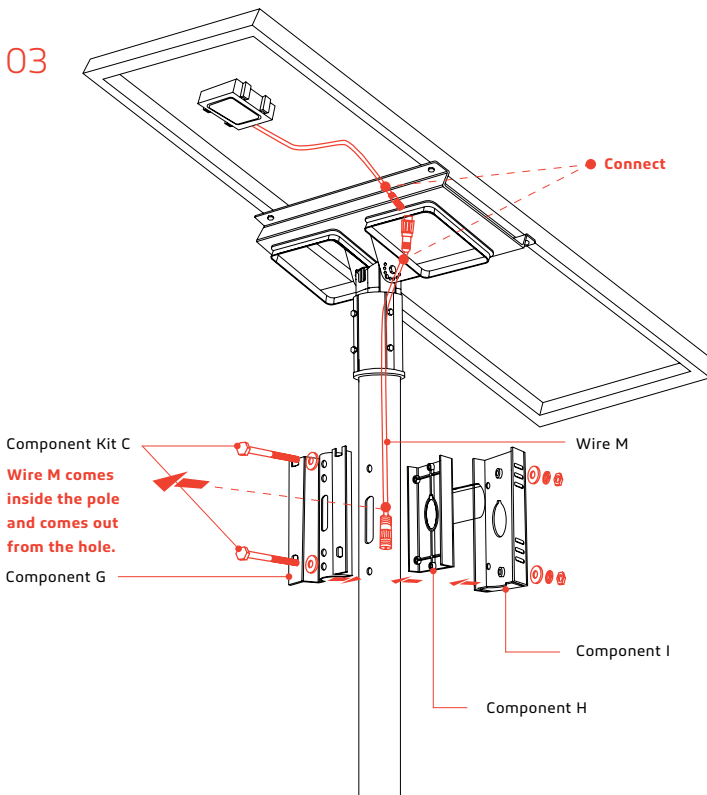
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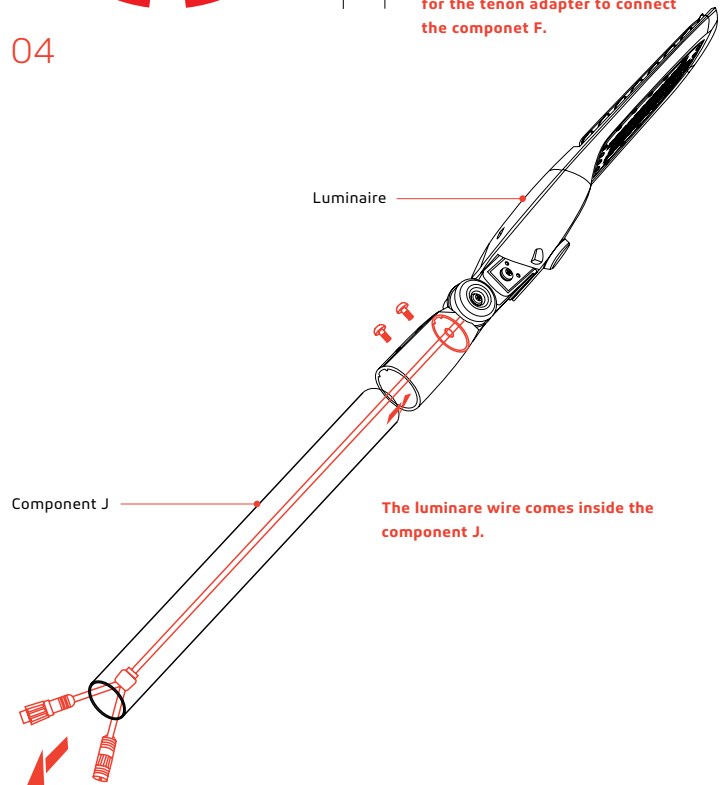
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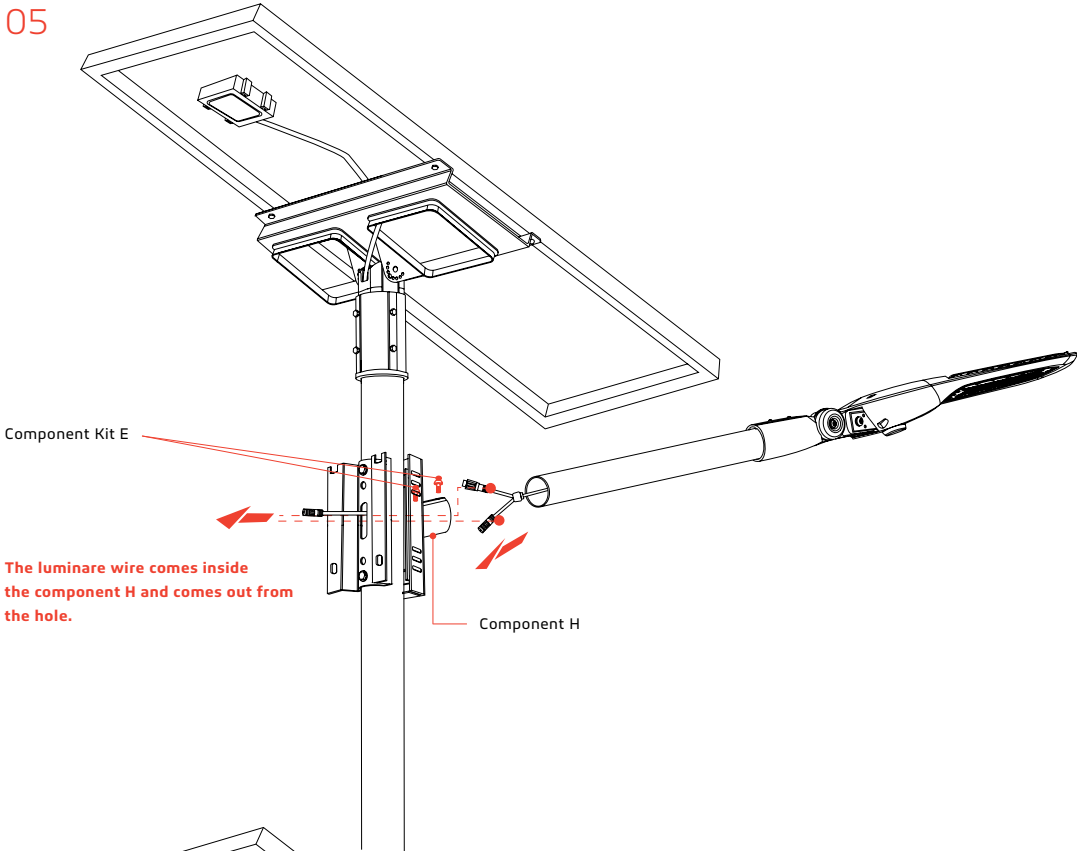


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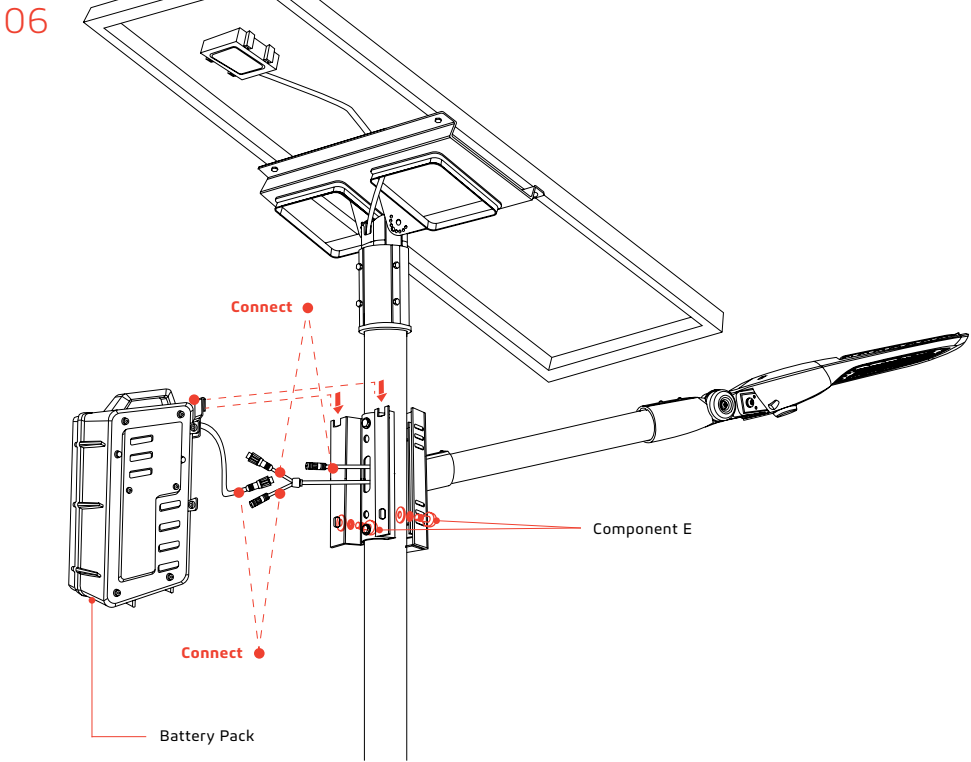


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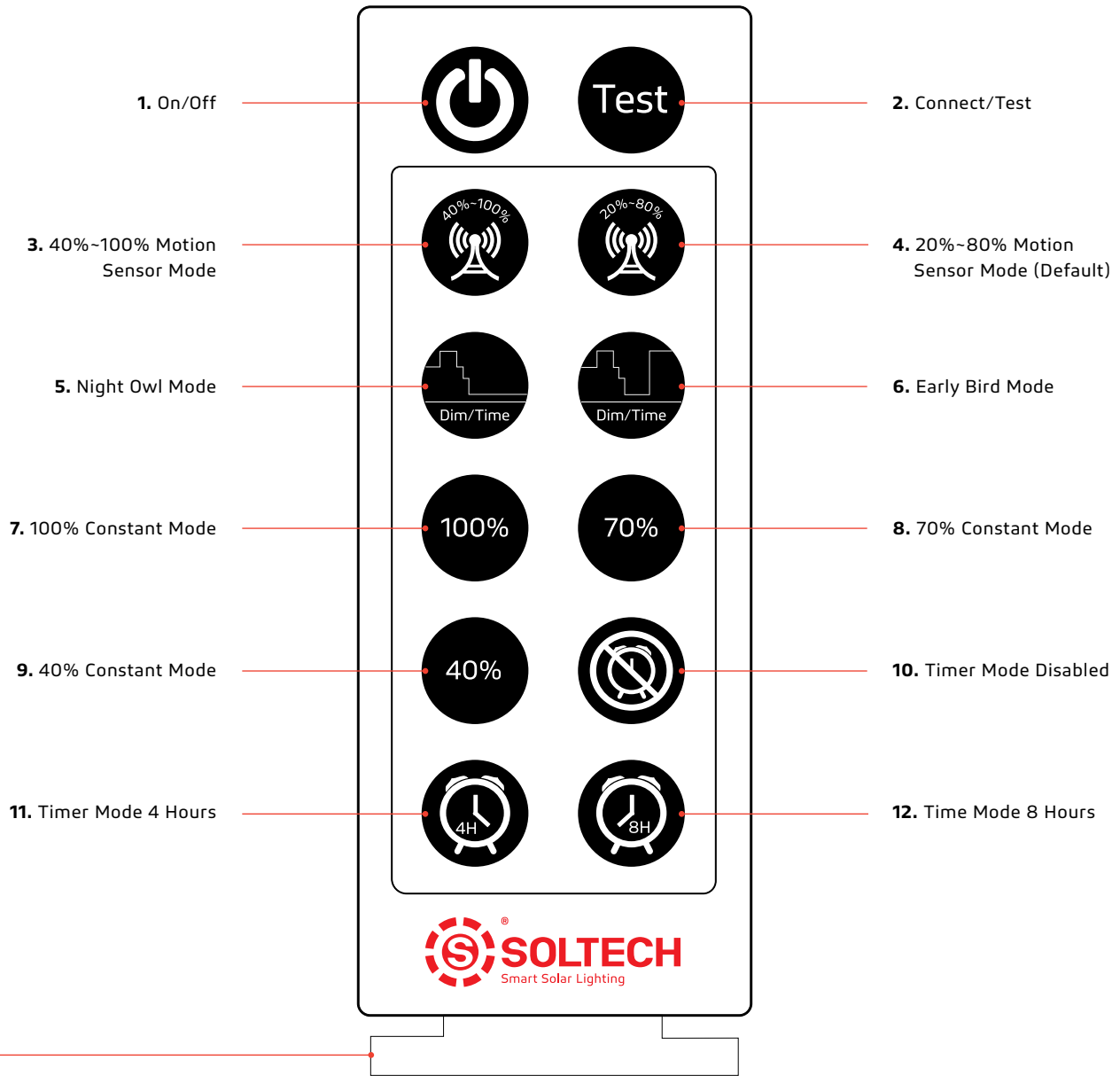
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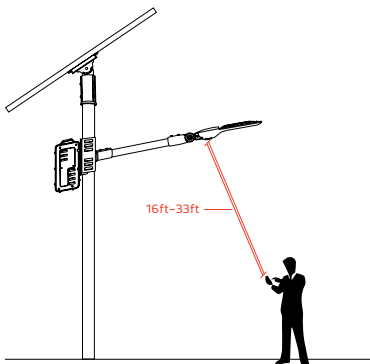
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REMOTE CONTROLS


When using the remote for the first time, please remove the plastic 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

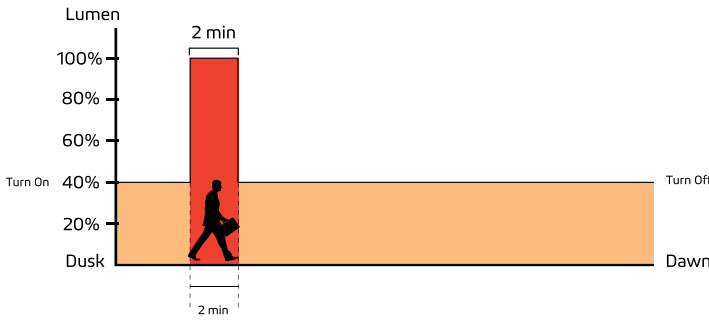
Remote control device can be connected with any lighting fixture. When all cables are connected and solar panel detects sunlight, the fixture will automatically turn on. To test, press the "Test" button once, the LED light will turn on to indicate the fixture has been turned on. During the day time, the indicator will slowly flashing red. That means the battery is charging.

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REMOTE CONTROLS

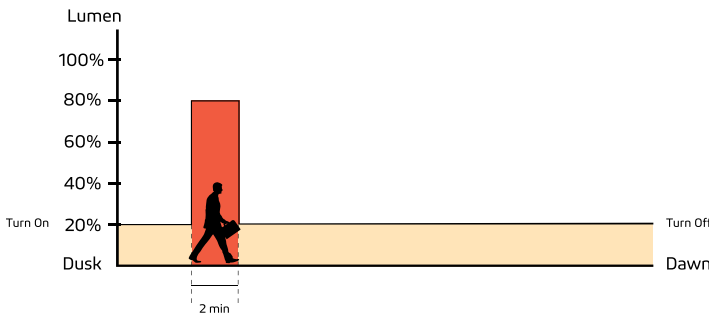
3. 40%-100% Motion Sensor Mode

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



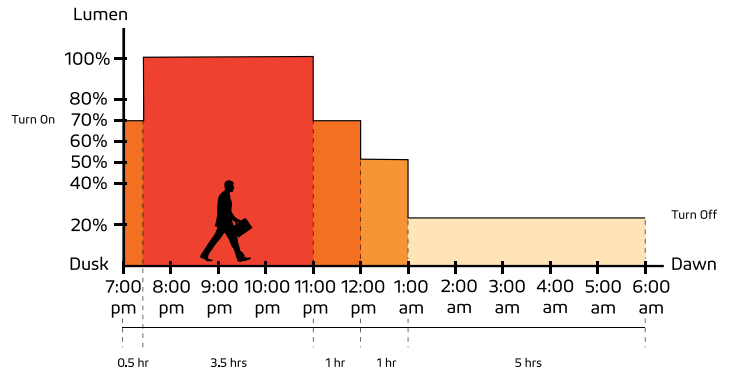
(IAP) Intelligent Adaptive Program Battery Control Technology

In order to extend the off-grid autonomy of the SATELIS THERMO 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%.

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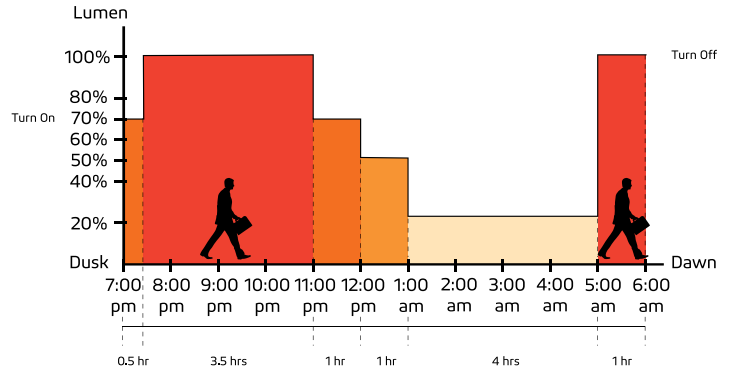
5. Night Owl Mode

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 may be different in other locations and seasons. The sensors of our products will follow the light patterns of where it is installed. The time period shown in the chart above is just an example to help you understand the different lighting modes only.



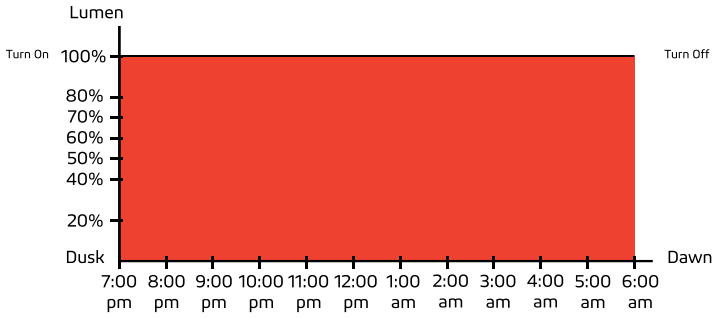
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REMOTE CONTROLS

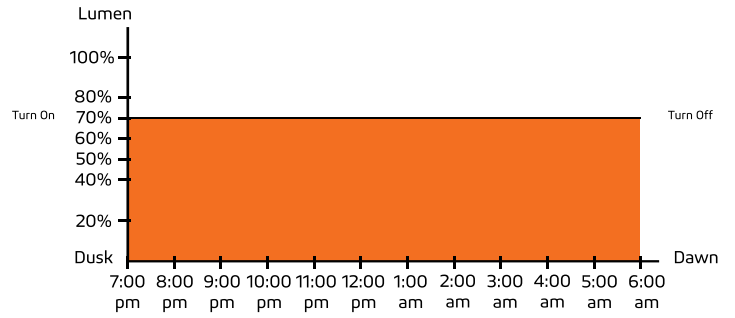
7. 100% Constant Mode

100% brightness from dusk to dawn.



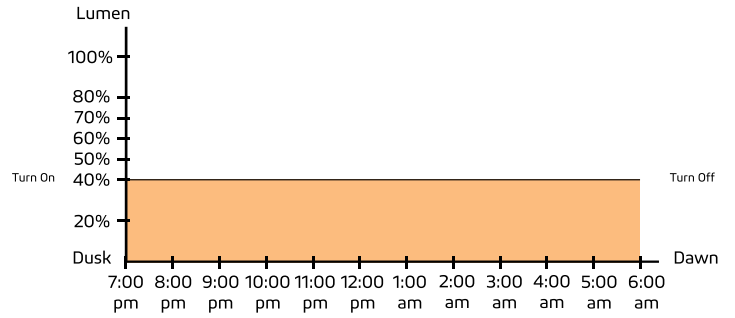
8. 70% Constant Mode

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.

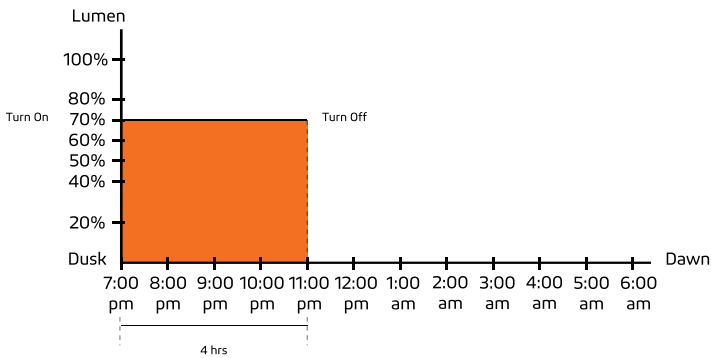


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REMOTE CONTROLS

11. Timer Mode 4 Hours

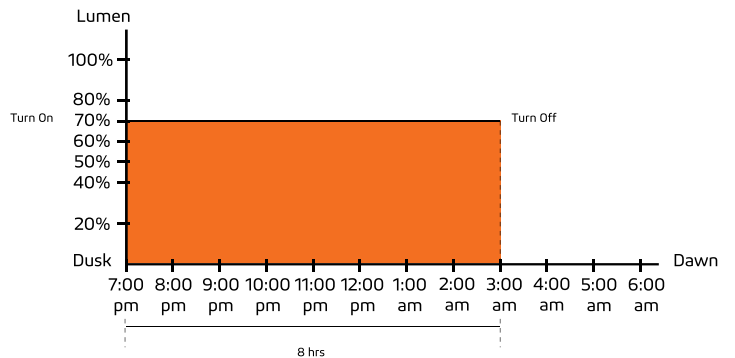
This is an additional mode which can work with any other modes. For example: press this button at any time after you turn on 70% Constant Mode. If the light turns on at 7pm at dusk, it will turn off at 11pm. It will repeat the same schedule hereafter until it is canceled by pressing Timer Mode Disabled.



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12. Time Mode 8 Hours

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% Constant Mode. If the light turns on at 7pm at dusk, it will turn off at 3am. It will repeat the same schedule hereafter until it is canceled by pressing Timer Mode Disabled.



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.



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WARRANTY

SATELIS THERMO 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.

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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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