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| CATALOG | | COMMENTS |
| PROJECT | | |
| PREPARED BY | | |
| DATE | | |

APPLICATIONS

CEGONIA PRO provides sufficient lighting for numerous applications, such as parking lots, courtyards, landscapes, pathways, bicycle lanes, park playgrounds and corporate campuses. With a two-piece design solution for the panel and lighting engine, these fixtures can easily provide up to 7+ days of operation on a full charge.

DESCRIPTION

Even in winter months, if sunlight is hitting a solar panel, it will generate electricity. Cold climates are actually optimal for solar panel efficiency. Contrary to common belief, heat diminishes the solar panel's electricity production. SOLTECH adopted unique, innovative battery technology to overcome the shortcomings of solar lighting system's cold weather performance. The super cold-tolerant battery technology in the CEGONIA PRO 30W provides excellent low-temperature charge and discharge performance.

ORDERING INFORMATION

| SERIES | WATTAGE | OPTIC TYPE | COLOR TEMPERATURE | MOUNTING OPTIONS | FINISH |
|-------------------------------|--------------------------------|---|--|--|--------------------------------------|
| STLSTEPRO =CEGONIA PRO | 30 =30W 6,000 Lumens | T2 =TYPE II T3 =TYPE III T4 =TYPE IV | 3 =3,000K 4 =4,000K 5 =5,000K 6 =5,700K | WM =Wall Mount TRR =Trunnion Round TRS =Trunnion Square | GY =Gray BR =Bronze |

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SPECIFICATION FEATURES

MPPT Controller

- Maximum Power Point Tracking (MPPT) is a technique for tracking and regulating the output energy from the solar panel to the battery.
- Measures the solar panel output voltage and current in real-time and continuously tracks the maximum power.
- Regulates the output voltage so that the system can always charge the battery with the maximum power.
- Significantly improves the solar system energy utilization rate, with a conversion efficiency up to 97%.
- Increases the solar system's charging efficiency by at least 20% compared to Pulse Width Modulation (PWM).

CERTIFICATION DATA



(IAP) Intelligent Adaptive Program Battery Control Technology

In order to extend the off-grid autonomy of the CEGONIA PRO 30W 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. This feature out-performs utilizing a constant percentage of max LED brightness. With (IAP), the controller actively monitors the battery and optimizes the electrical current to the LEDs. The IAP controller applies the selected percentage output from the remote, to the battery capacity, rather than the max LED output. This smart-control feature can increase SUNLIKE PRO's off-grid performance by up to 40%.

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|-------------|--|----------|
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SPECIFICATION FEATURES



7 Days and 50+ Hours Max Autonomy

- UP to 300 WH battery capacity
- Full self-charging time less than 9 hrs
- One-key smart programming



Generates More Solar Energy

- Up to 64 W Mono-Crystalline Solar Panel
- Angled solar panel provides maximum energy and self-cleaning of the panel surface



High Brightness, Smart Power Consumption

- 360-degree downward light disbursement
- >200 LM/W lighting efficiency



Longer Life

- Grade A Superior Battery Pack, 2000+ full charging cycles
- Lumileds 5050 LED chips
- PC diffuser is UV-resistant



Universality for Different Orientations

- Pole mounting option and wall mounting option
- 270-degree rotation and large panel size work universally in high shade areas
- Rotating solar panel and rotating light engine



Elegant Design

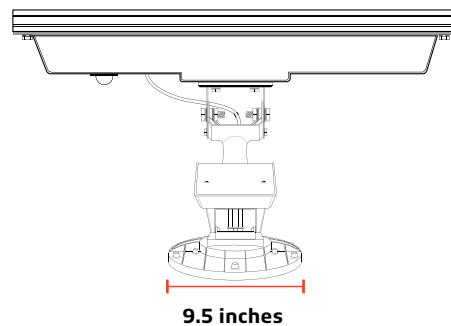
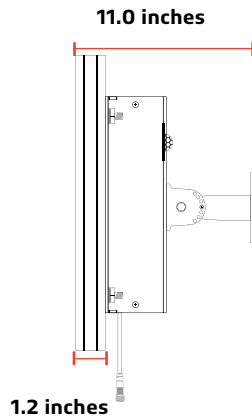
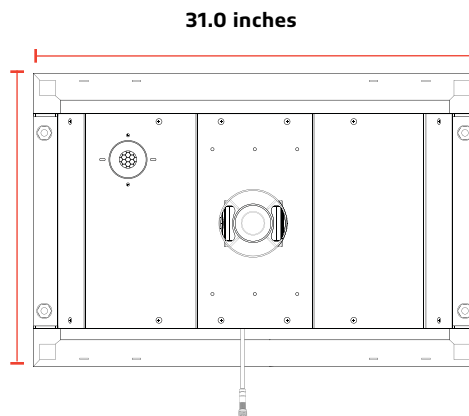
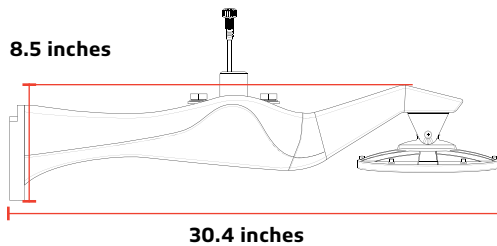
- Perfect balance between a retro/classic design and the contemporary appearance of our latest solar technology

PRODUCT SIZE

SOLAR PANEL: 9.9 Lbs

SOLAR LAMP: 13.6 Lbs

BATTERY ASSEMBLY: 25.9 Lbs



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SPECIFICATIONS

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| LED Nominal Power | 30W |
| Solar Panel | 18V 64W |
| Superior Battery | 300WH 12.0V 25AH Superior Battery |
| Weight | 49.4 lbs |
| Lumen Output@5000K | 6,000 |
| CRI | > 70 |
| LED Chip | Lumileds 5050 (215lm-CR>70) |
| * EPA@45° | 5.0 |
| Waterproof Rate | IP65 |
| Casting | Aluminum |
| Efficiency@5000K | 200 lm/W |
| * Charging Time | 9hrs |
| Run Time (@Full Power) | 10hrs |
| Operation Mode | Remote control and One-key Setting |
| Installation Height | 9 to 20ft |
| * Operating Temperature | -40 °F to 140 °F |
| * Charging Temperature | -58 °F to 140 °F |
| Maximum Autonomy | |
| Motion Sensor Mode | 40%–100% 25hrs 20%–80% 50hrs |
| Time Control Mode | Night Owl 23hrs Early Bird 20hrs |
| Constant Mode | 100% 11hrs 70% 15hrs 40% 26hrs |

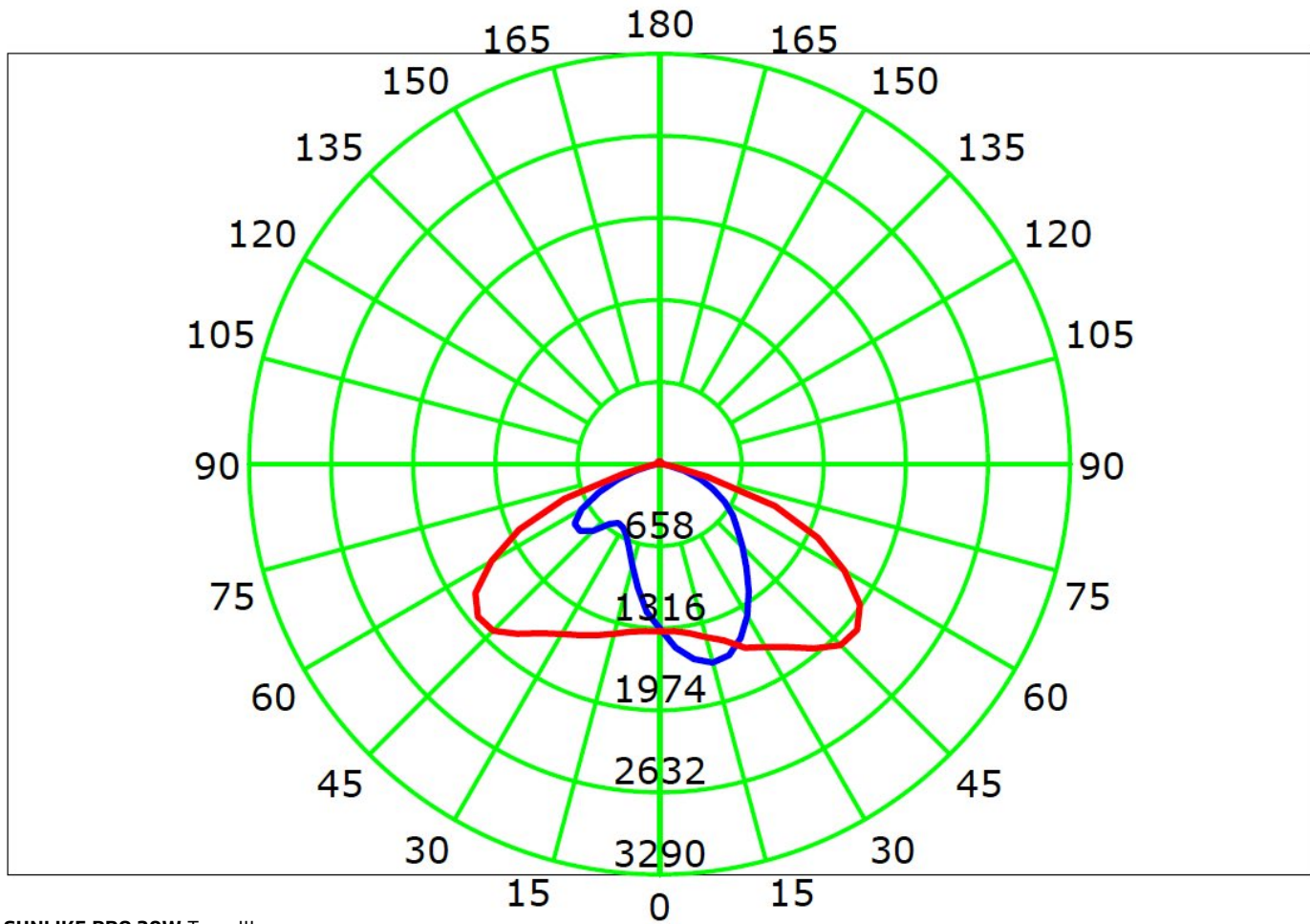
* For more information of EPA data, Please contact SOLTECH team. 45° solar panel tilt angle is not a suggested angle for all installations of SOLTECH solar products.

* The temperature can impact the battery's charging and normal operation.

* 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

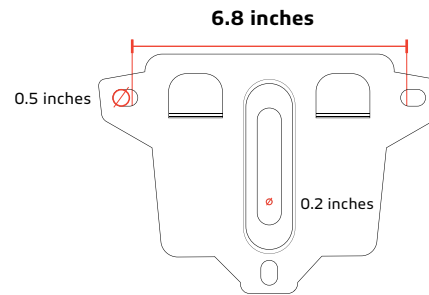
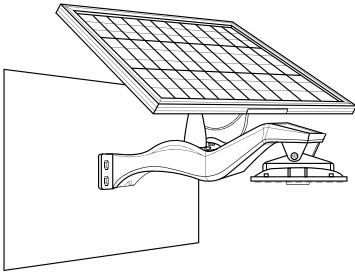


SUNLIKE PRO 30W Type III

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| DATE | | |

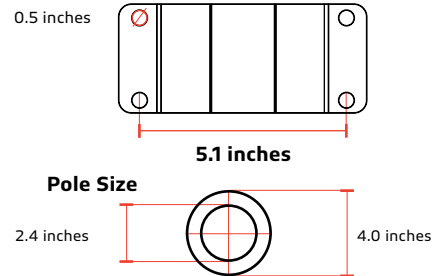
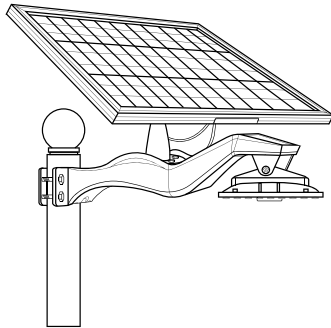
INSTALLATION ACCESSORIES

A. TRUNNION—Wall Mount



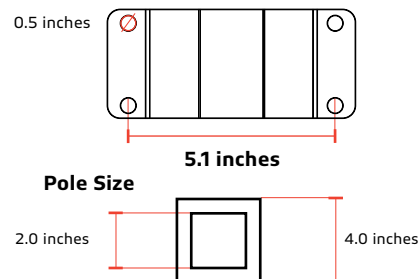
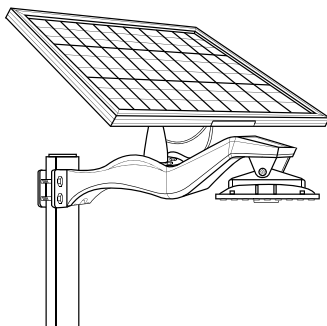
A-b. STLSTEPRO-30-WM (for CEGONIA PRO 30W)

B. TRUNNION—Round



B-b. STLSTEPRO-30-TRR (for CEGONIA PRO 30W)
works with 2.4 inches to 4.0 inches poles.

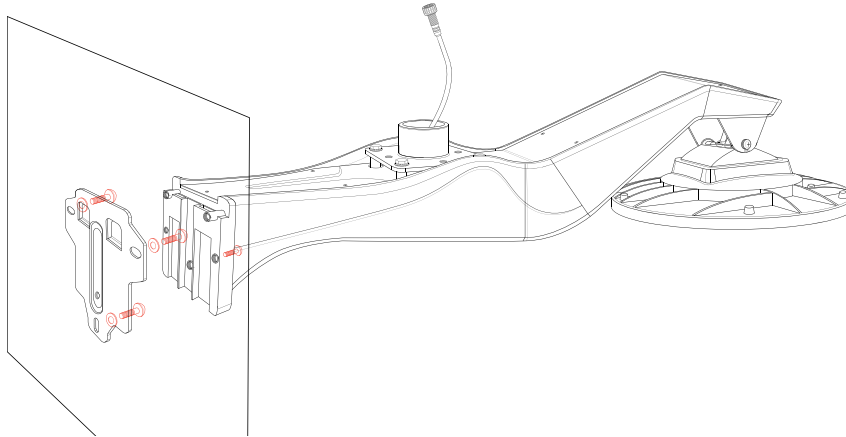
C. TRUNNION—Square



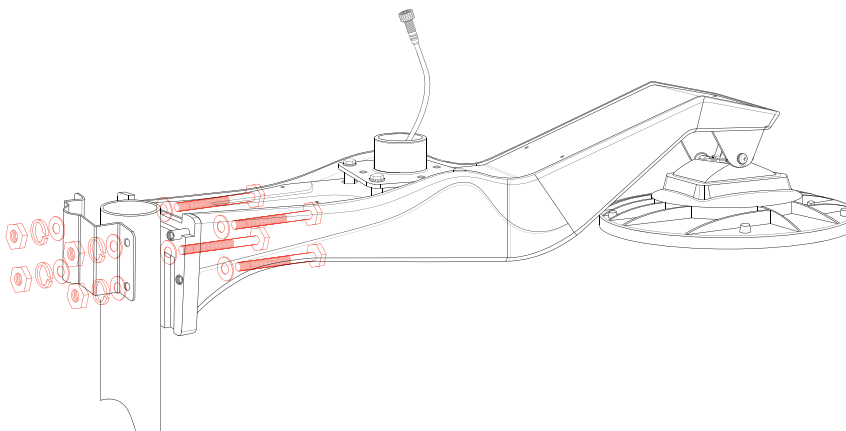
C-b. STLSTEPRO-30-TRS (for CEGONIA PRO 30W)
works with 2.0 inches to 4.0 inches poles.

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| PROJECT | | |
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| DATE | | |

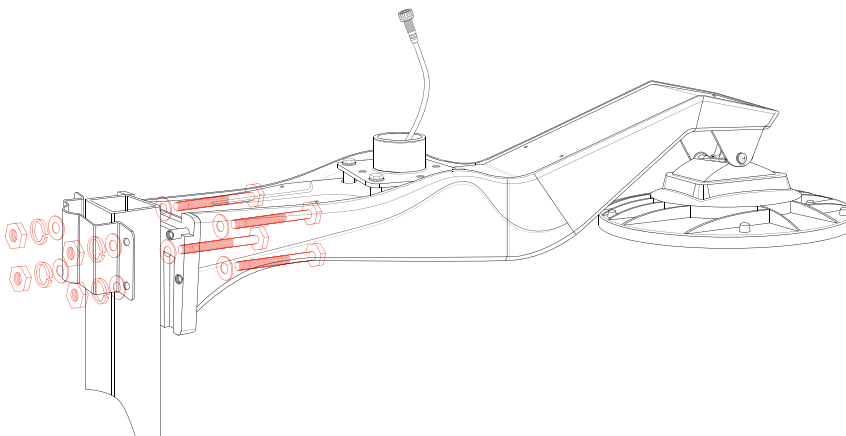
TRUNNION —Wall Mount



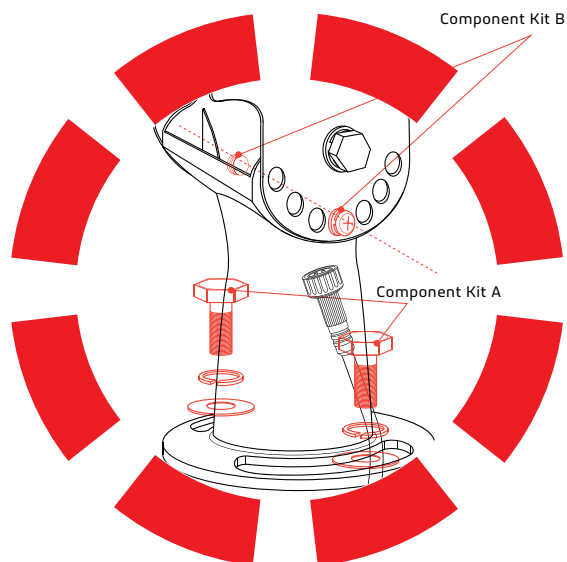
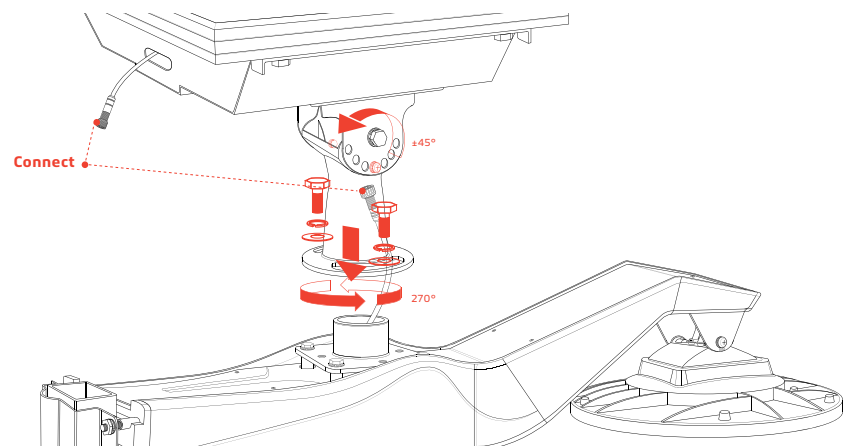
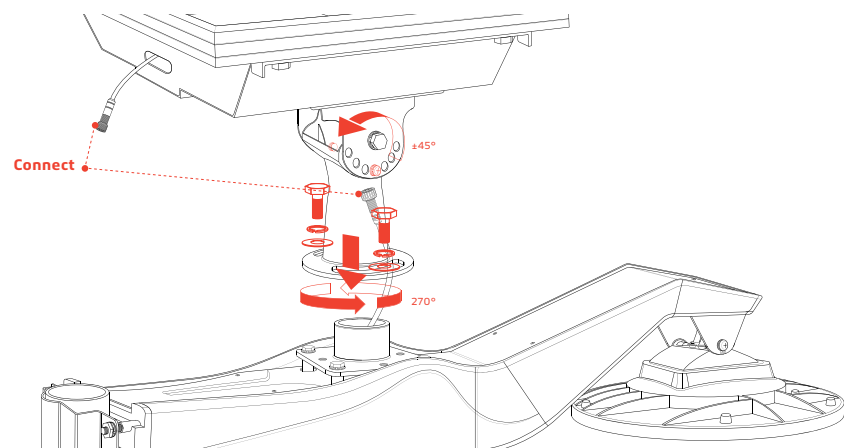
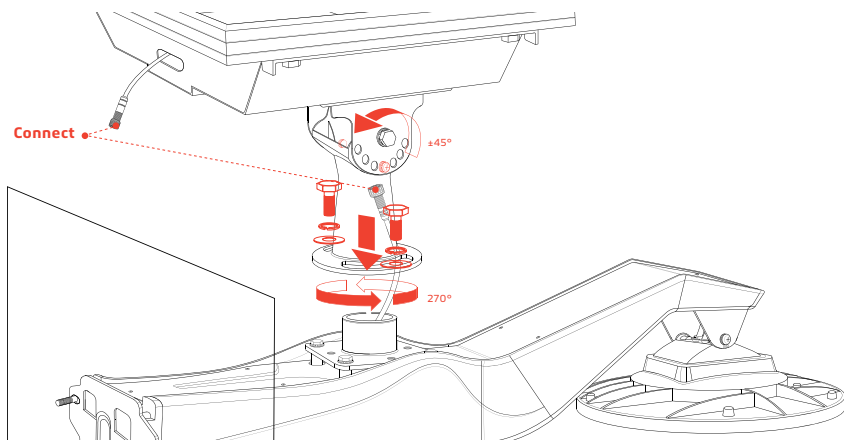
TRUNNION —Round



TRUNNION —Square

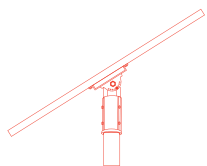


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| CATALOG | | COMMENTS |
| PROJECT | | |
| PREPARED BY | | |
| DATE | | |

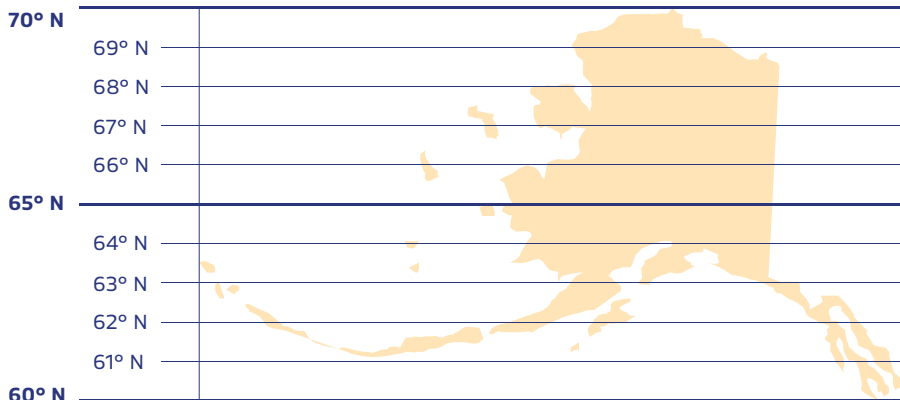


Loose screws of component kit B to adjust the angle of solar panel.

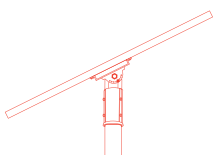
Loose screws of component kit A to rotate solar panel.



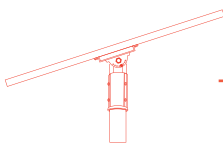
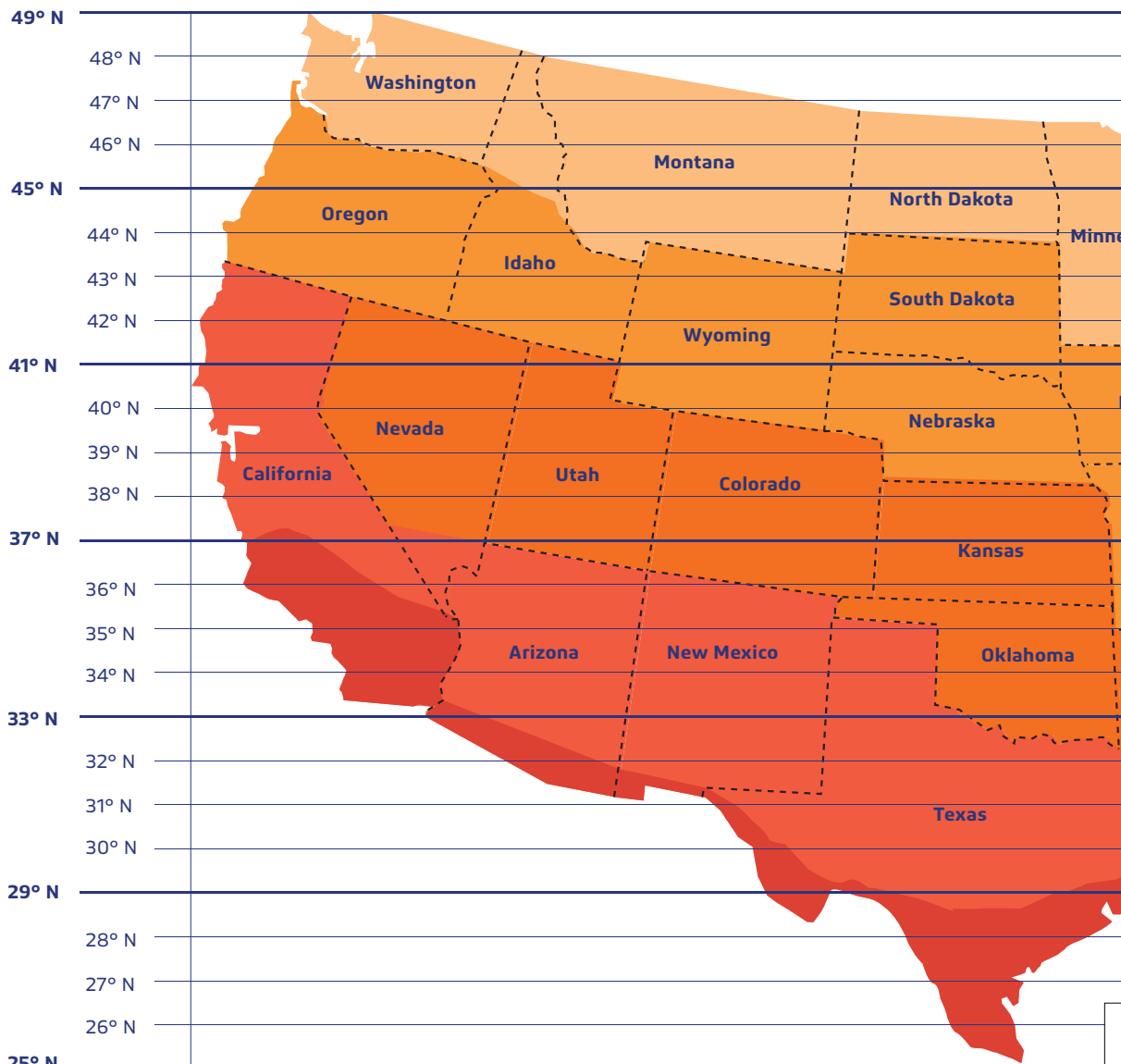
60°



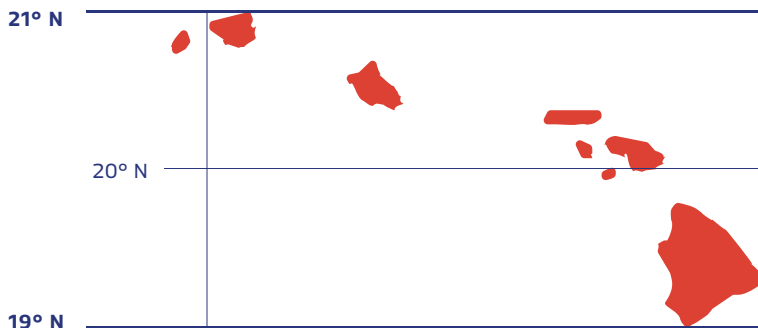
Alaska



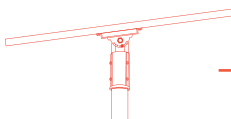
45°



30°



Hawaii

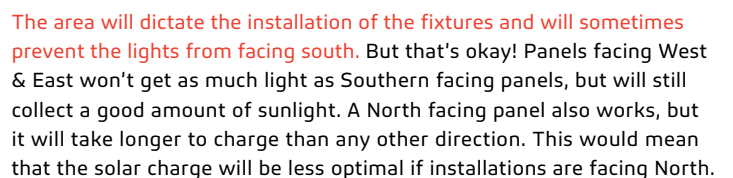


15°



The solar charge in a battery pack won't last forever. The off-grid system relies on stored solar energy for autonomy. Angling your solar panels properly can boost the power intake of your solar lighting system. You want to angle your solar panels at a tilt based on the area's latitude.

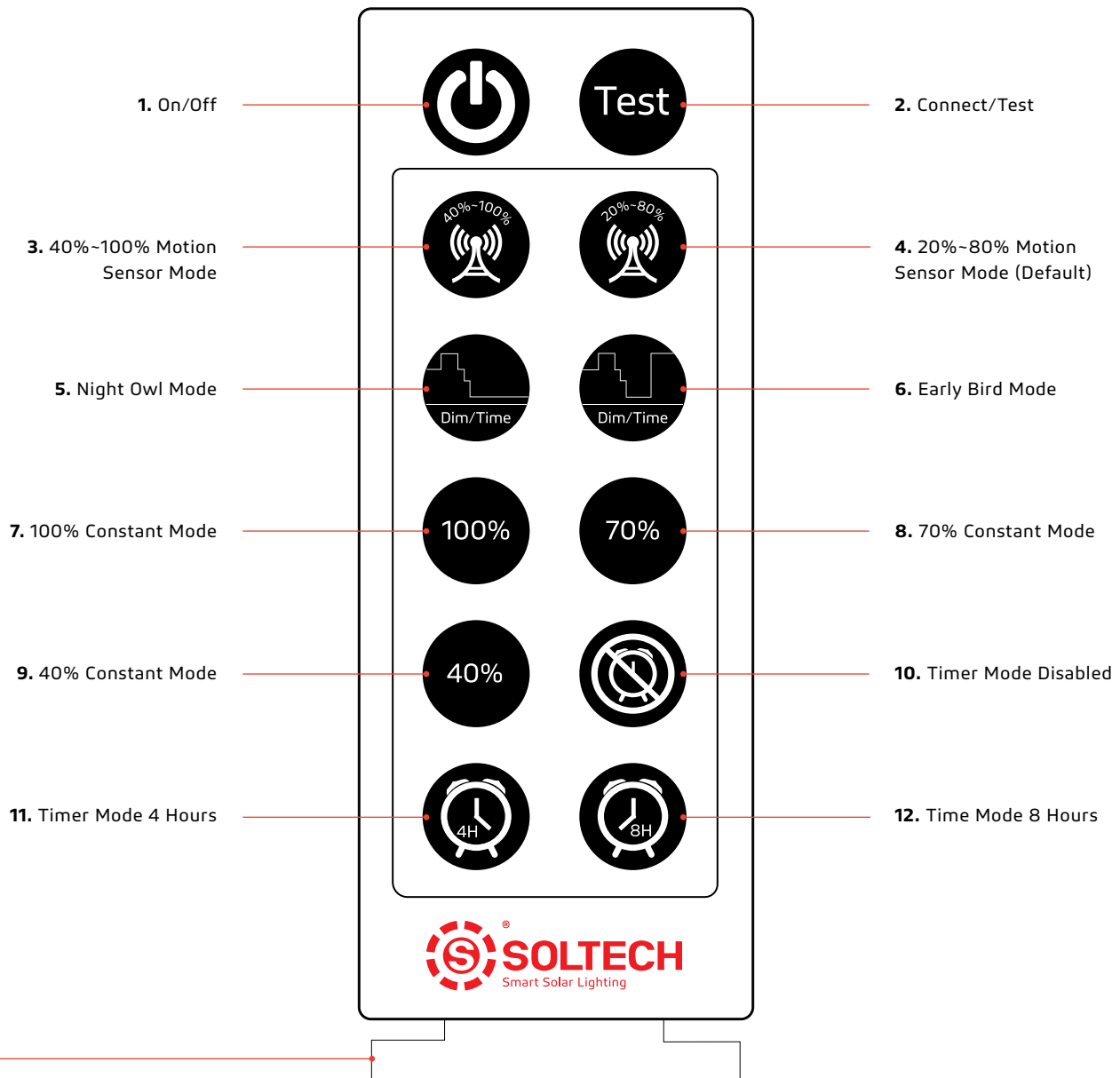
You can increase the tilt 15° in the winter or decrease 15° in the summer. In this way you can get the maximum sunlight to recharge the battrey



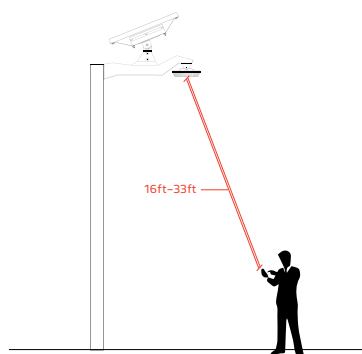
A world map showing the distribution of the world population by country. The map is color-coded by population size, with a legend on the right side. The colors range from light yellow (lowest population) to dark red (highest population). The map shows that the highest population densities are concentrated in East Asia (China), South Asia (India), and Southeast Asia. Other major population centers are visible in Europe, Africa, and Australia. The map is overlaid with a grid of latitude and longitude lines.

| | | |
|-------------|--|----------|
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| DATE | | |

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

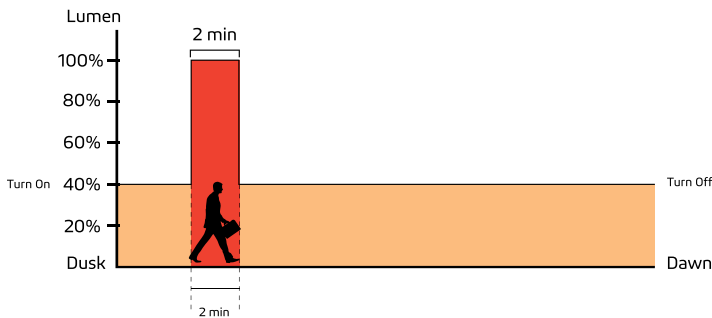
Remote control device can be connected with any lighting fixture. When all cables are connected and solar panel detects sunlight, the fixture will automatically turn on. To test, press the "Test" button once, the LED light will turn on to indicate the fixture has been turned on. During the day time,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

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| PREPARED BY | | |
| DATE | | |

REMOTE CONTROLS

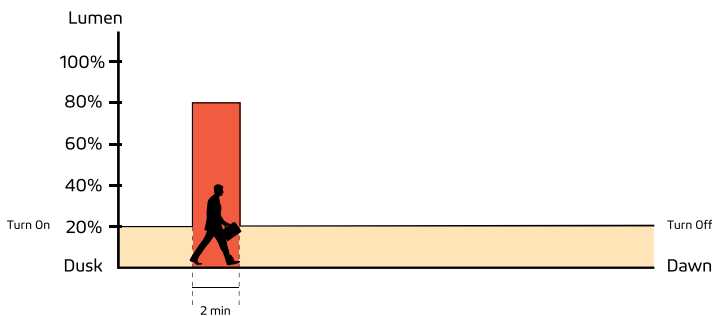
3. 40%~100% Motion Sensor Mode

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



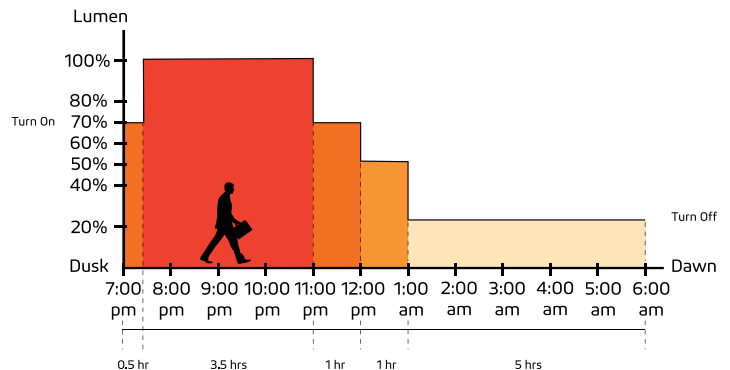
4. 20%~80% Motion Sensor Mode (Default)

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



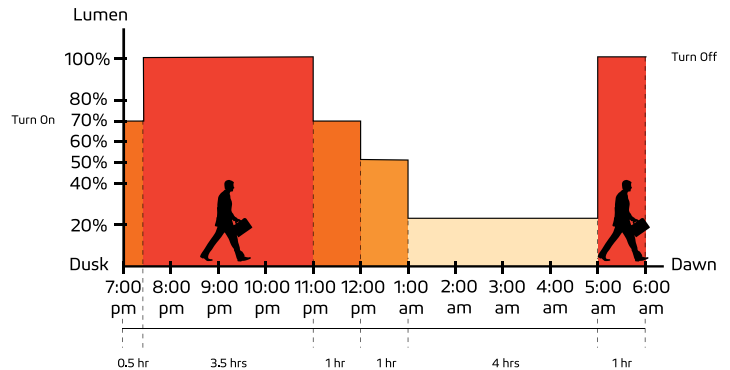
5. Night Owl Mode

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

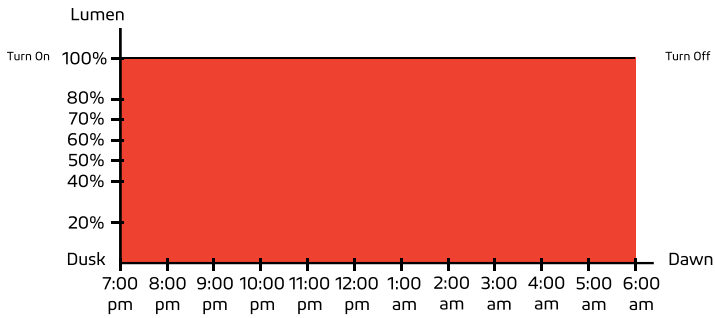
Dusk and dawn time may be different in other locations and seasons. The sensors of our products will follow the light patterns of where it is installed. The time period shown in the chart above is just an example to help you understand the different lighting modes only.

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| CATALOG | | COMMENTS |
| PROJECT | | |
| PREPARED BY | | |
| DATE | | |

REMOTE CONTROLS

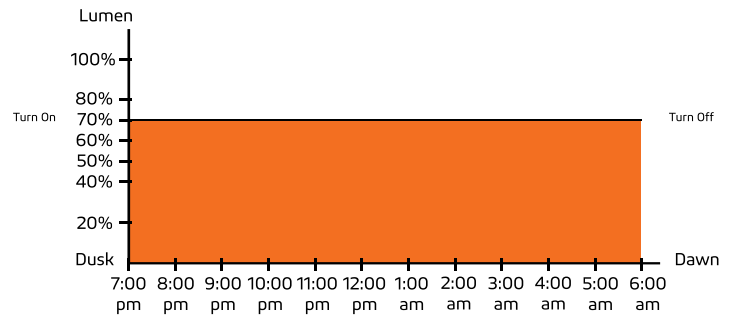
7. 100% Constant Mode

100% brightness from dusk to dawn.



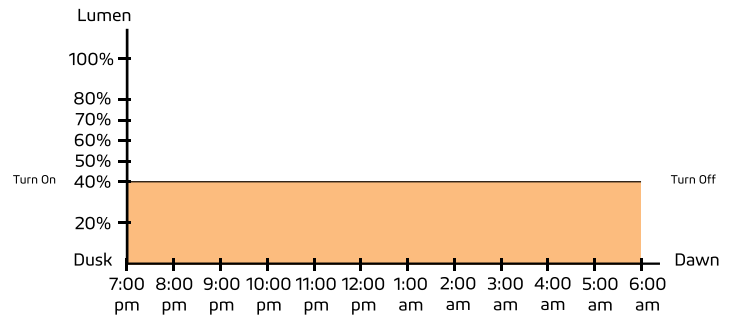
8. 70% Constant Mode

70% brightness from dusk to dawn.



9. 40% Constant Mode

40% brightness from dusk to dawn.



10. Timer Mode Disabled

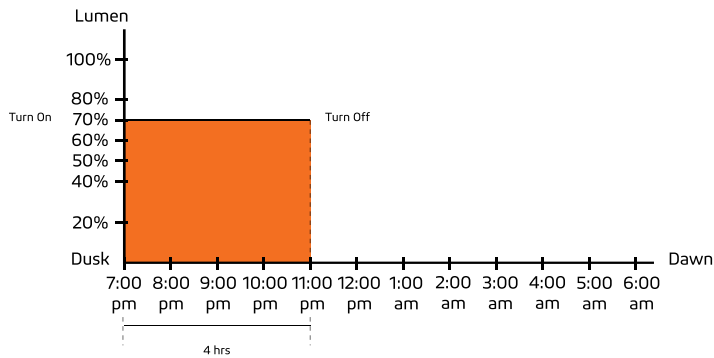
Press this button to turn off Timer Mode; settings revert back to before Timer Mode was last activated.

| CATALOG | | COMMENTS |
|-------------|--|----------|
| PROJECT | | |
| PREPARED BY | | |
| DATE | | |

REMOTE CONTROLS

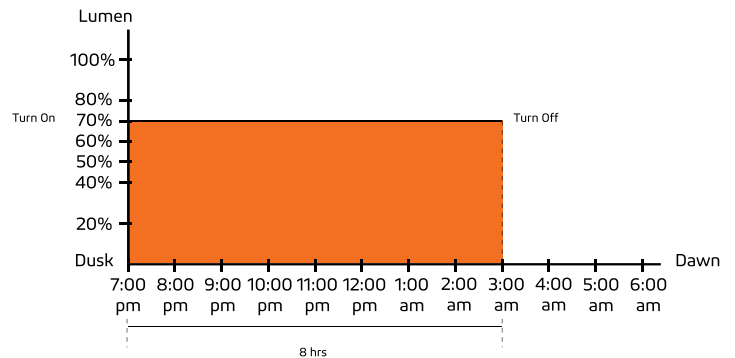
11. Timer Mode 4 Hours

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.



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.