

## Integrated solar Street light



**Quality is the future**

## Operating Instruction

Integrated solar Garden light, the top supplier of the world

Power-free

Simple installation

Longer lighting time

## Sincerely thank you for using the integrated solar garden light.

The design of the integrated solar street light/garden light absorbs the inspiration and energy from the universe, and combines today's best green energy portfolio (solar energy, semiconductor LED light source, dedicated battery for street lights). It uses excellent practical control technology, such as micro controller, thermal infrared human body induction etc., combines with the simple integrated structure design, perfect implementation of low power consumption but high brightness (average 5w power consumption is 100w incandescent lamp's illumination), long life span and free maintenance, excellent waterproof and heat dissipation, at the same time with convenient installation. All the advantages above make it the best contributed and creative patent product of our company.

### Matters needing attention

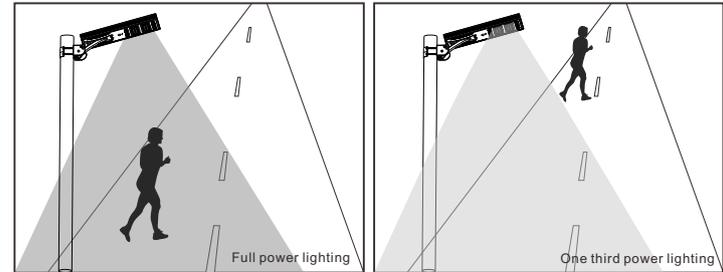
(1) "All-in-one" will not work without sun. Please select the matched product model according to the Sunlight intensity of the install location or the total annual radiation of solar energy. In the lacking sunlight or long continuous rainy day area, the working time of solar lights can be shortened or can not light, All-in-one light with mains supply or solar dual-mode electric power supply is suggested to choose in such case.

(2) "All-in-one" selects long-life lithium battery as energy storage device. Discharge condition at night is  $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$ , battery performance will be damaged beyond this range. Please make sure the local extreme temperature does not exceed the above condition when selecting the "All-in-one".

(3) "All-in-one" battery after fully charged, the longest store time can be up to six months. Check the battery in time after long time transport or storage, charge and record it on a regular time. Otherwise, the battery will be damaged.

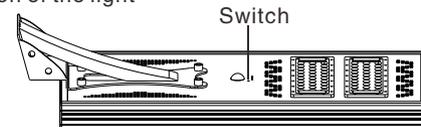
(4) When installing "All-in-one", make the solar panel towards the direction of the sun as possible in order to get maximum energy and avoid houses and the shadow of obstacles such as trees at the

same time, otherwise it will reduce the generating efficiency of the solar panel, and lead to "All-in-one" working time being shortened. (5) "All-in-one" solar panel surface's degree of cleanliness also affects the generating efficiency of the solar panel. So its surface (such as dust, leaves, greasy dirt, etc.) needs to be cleaned, scrubbing with ordinary cleaner on a regular time is suggested. (6) "All-in-one" internal parts are with good waterproof design, all reach IP65 standard. Ventilation holes and cracks on the shell are specially designed for the cooling and drainage. Metal parts are all made of corrosion resistance aluminum or stainless steel, which can tolerate the strict environment of the sea or high heat and high humidity desert.

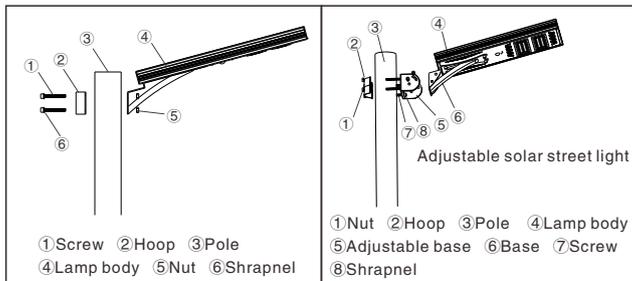


### Installation Steps

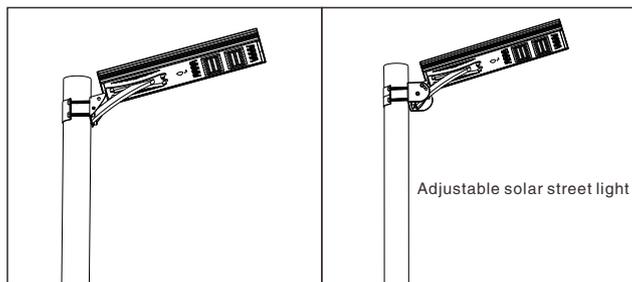
- (1) Choosing a place to install the pole with the best solar light. The diameter of the pole is between 76~100mm, the thickness of the pole need more than 2.0mm. The pole can be iron pole or stainless steel pole.
- (2) Checking the parts first when open the box.
- (3) Making the switch turns on with pin for retrieving card before the installation of the light



(4) Tighten the screws with the lamp body and the hoop . PS: The adjustable light need add a adjustable base first, then tighten the screws with the lamp body and the base ina certain angle. (steps for reference as pictures)



(5) Installation finished as below pictures.



## Maintenance

(1) Solar controller is the core component of solar street lights, which has the function of light control, time control, charging and discharging, etc. Keep it dry in use, and do not touch the buttons at discretion. Malfunction must be in professional operation;

(2) Solar panel is the longest service life of component in the solar street light, which can be used for 25 years. And in use if it doesn't rain for days, the surface of the solar panel will gather much soil

dust, which will affect the power generating efficiency manual cleaning when necessary. Keep the solar panel towards the south, correct it timely if there is swing;

(3) LED light source has a long service life, general failure rate is extremely low. Dirt cleaning of the whole light source is needed when using 2 to 3 years in case the dirt resists electricity and reduce the brightness of lights;

(4) The battery itself has certain self-discharge, when the integrated solar light is not in use for a long time, please take out the light regularly for charging in the sun.

## Troubleshooting

Phenomenon	Cause	Inspection methods	Solution
Lights not work	Switch does not turn on	Detect whether the switch turn on or not	Turn on the switch
	Battery runs out	Long rainy days or wrong installation site could not charge enough power.	Charge the battery with strong solar light 1-2 days then check it.
	LED Failure	Replace the LED Source and found the light lighting	If it was LED failure, please return, the light to our factory for repair or replacement
Short lighting time	Low battery	1. Wrong installation site of the light. 2. Dust and leaves covering from the solar panel. 3. Long period rainy days.	1. Charging the battery with strong solar light in daytime, and turn off the switch at night for 2 days . 2. Cleaning the solar panel.
	Battery Failure	1. Open the light and check if battery has moved or outer has been damaged or not. 2. Battery maturing, lights have been used more than 2 years.	1. If damage caused by transportation, please return to our factory for repairing or replacement. 2. Contacting us to buy the same type battery maturing.
No induct	Sensor Failure	In the condition of half power lighting, when people walking under the light, the light doesn't work with full power, then the sensor of the light doesn't work.	If ensure failure caused by controller or sensor, please return to our factory for repairing or replacement.

## Product warranty

Product name : \_\_\_\_\_ Product Model No. : \_\_\_\_\_

Factory Number : \_\_\_\_\_ Date of production : \_\_\_\_\_

Tel. : \_\_\_\_\_ Fax : \_\_\_\_\_

Address : \_\_\_\_\_

Producer's stamp : \_\_\_\_\_ (stamped and effective)

Customer name : \_\_\_\_\_ Contact information : \_\_\_\_\_

Customer's address : \_\_\_\_\_

1. Guarantee content : \_\_\_\_\_ After sales : \_\_\_\_\_

Customer Sign : \_\_\_\_\_  Satisfied  Dissatisfied

2. Guarantee content : \_\_\_\_\_ After sales : \_\_\_\_\_

Customer Sign : \_\_\_\_\_  Satisfied  Dissatisfied

3. Guarantee content : \_\_\_\_\_ After sales : \_\_\_\_\_

Customer Sign : \_\_\_\_\_  Satisfied  Dissatisfied

## Warranty terms

During the warranty period, if there is malfunction under the normal use in accordance with the operating instructions (judged by the company official staff), product will be free repaired.

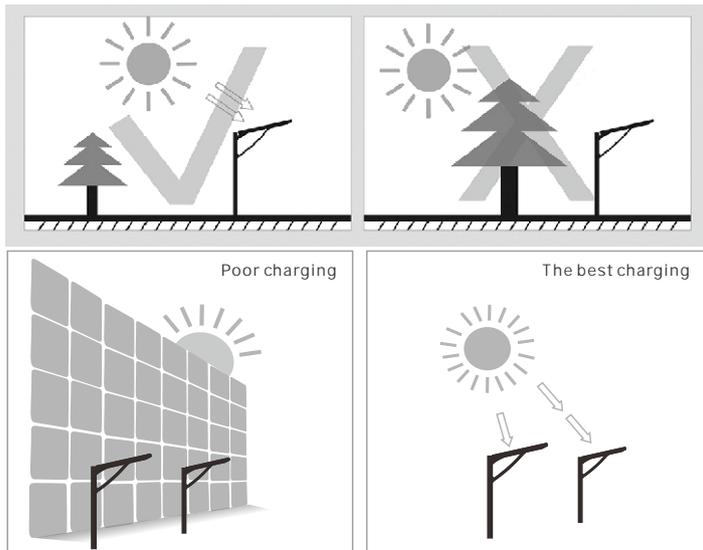
During the warranty period, any one of the following cases, must charge for repair

- (1) Can not provide the letter of guarantee and valid proof of purchase.
- (2) Malfunction and damage caused by wrong use and improper personal repair.
- (3) Malfunction and damage caused by transport, move, drop after purchasing.
- (4) Malfunction and damage caused by other inevitable external factors.
- (5) Damage caused by using the unspecified power and voltage.

Product appearance, vulnerable products and accessories are beyond the scope of the warranty.

We make the above guarantee only, and do not make any express or implied guarantee (including merchantability, and application of a certain rationality and adaptation of implied warranty), whether in contract, civil negligence, or other aspects, Our company will not take any responsibility to any special, incidental or consequential damages.

## All in one solar street lamp installation instructions



When install the integrated solar led street, please choose a position with enough sunshine and fully exposure. Pls note the solar panel must be fully exposed, without any shelter.

## After sales service telephone

Our company has the right to improve the performance, structure and appearance of the products and without any note. Related description just for reference, Detailed information is in accordana with the final product.

Our company guarantee that the content of instruction has been trying to check, and do not undertake any form of loss caused by this.