



# OSLEDER LIGHTING TECHNOLOGY CO., LTD

## All In One Solar Street Light

**Quality is the future**



## Operating Instruction

Top manufacture of the world

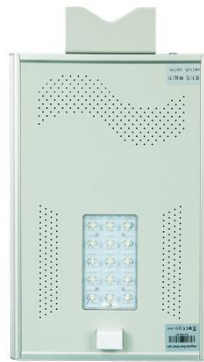
No need electricity

Easy installation

Longer lifetime

## Sincerely thank you for using the integrated solar street 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 achieve higher brightness with lower power consumption**, (average 15w power consumption equals 80w 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.



15W



20W



30W



40W



50W



60W



80W



## ■ Contents

### **Performance parameters**

■ ..... (1)

### **Matters needing attention**

■ ..... (2)

### **Installation steps**

■ ..... (3)

### **Maintenance**

■ ..... (4)

### **Trouble shooting**

■ ..... (5)

### **Product warranty**

■ ..... (6)

### **Installation instructions**

■ ..... (7)

# Parameters



Model No.	15W	20W	30W	40W
Light source	15 w	20 w	30 w	40w
Solar panel	high efficiency monocrystalline	high efficiency monocrystalline	high efficiency monocrystalline	high efficiency monocrystalline
Radar Sensor	Yes	Yes	Yes	Yes
carton size	570*350*135mm	570*350*135mm	950*350*210mm	950*350*210mm
Lumen (full power)	1650lm	2200 lm	3300 lm	4400 lm
Lumen (energy-saving mode)	825lm	1100 lm	1650 lm	2200lm
Angle	120 °	120 °	120 °	120 °
Color temperature	6500k-7000k	6500k-7000k	6500k-7000k	6500k-7000k
Working time	≥24Hr	≥24Hr	≥24Hr	≥24Hr
Working temperature	Charging: -20° C~+60° C      Discharge:-20° C~+60° C      Storage temperature: 0° C~+45° C			
Recommended Mounting Height	3-4m	4-5m	5-6m	5-6m
Recommended Mounting Distance	8-10m	12-15m	18-20m	18-20m

Working time data is based on charging 8 hours in the sunny summer, measured in north latitude 22° , east diameter 13° .Actual working time may be changed due to different installation area, season, environment, direction etc.

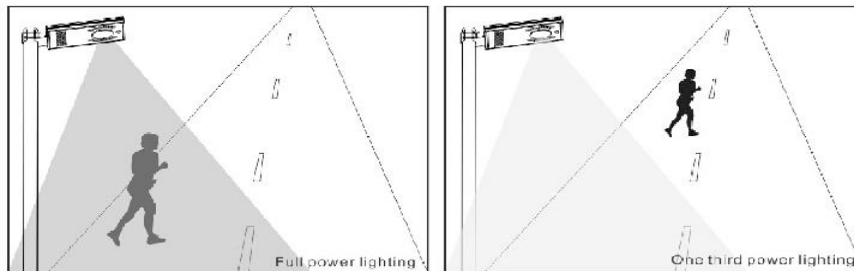
## Performance parameters

Model No.	50W	60W	80W
Light source	50W	60W	80W
Solar panel	high efficiency monocrystalline	high efficiency monocrystalline	high efficiency monocrystalline
Time Control	Yes	Yes	Yes
carton size	1190*360*220mm	1190*360*220mm	1190*490*220mm
Lumen (full power)	5500LM	6600LM	8800LM
Lumen (energy-saving mode)	2750LM	3300LM	4400LM
Angle	120°	120°	120°
Color temperature	6500k-7000k	6500k-7000k	6500k-7000k
Working time	≥24Hr	≥24Hr	≥24Hr
Working temperate	Charging:-20° C~+60° C    Discharge:-20° C~+60° C Storage temperature:0° C~+45° C		
Recommended mounting height	6-7M	7-8M	8-9M
Recommended mounting distance	20-25M	20-25M	25-30M

Working time data is based on charging 8 hours in the sunny summer, measured in north latitude 22° , east diameter 13° .Actual working time may be changed due to different installation area, season, environment, direction etc.

## 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 at temperature  $-20^{\circ}\text{C} \sim +75^{\circ}\text{C}$ , 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.

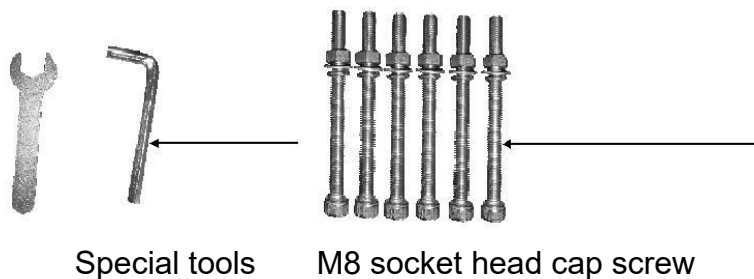


## Installation steps

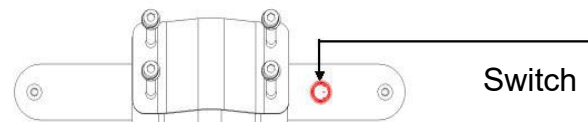
### 15W-40W Installation steps

(1) Select the best day-lighting location to set up the pole. Pole 3-5 meters high is appropriate, diameter 40 ~ 100mm, Thickness more than 2.0mm iron rod or steel rod.

(2) Open the packaging and check if components are completed. Contained



(3) Turn on the switch before installation.



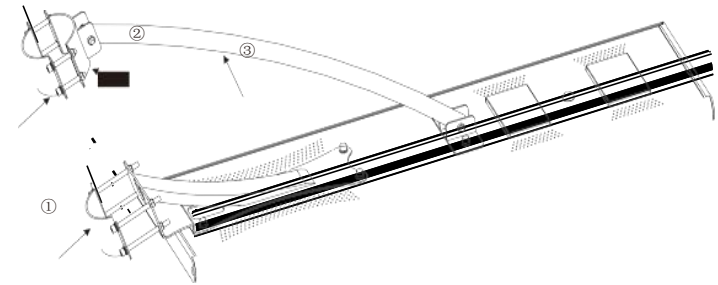
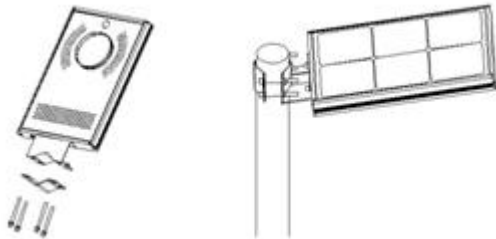


## 50W-80W Installation steps

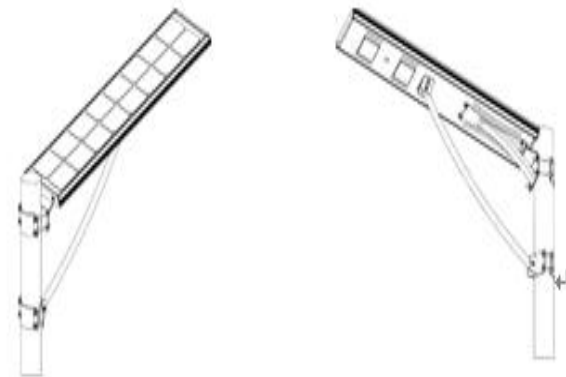
step (1) to (3) same as 15-40W installation steps

(4) Put integrated solar light into the pole, fasten the screws with special tools, and ensure the light is firm.

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(5) The integration of solar energy lamps set into the lamp, use special tool for fastening screws, ensure lamps can be stable.





## 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 35 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 <b>the switch turns on</b>	Turn on the switch
	Switch failure	Short circuit the switch, if lighting up, could judge switch failure.	Replace Switch
	Battery runs out	Long rainy day or wrong installation site could not charge enough power. Open the system, disconnect the battery and use multimeter to check the voltage of the battery, if voltage less than 11V, then could judge battery runs out or low power <b>cause</b> system could not work.	Charge battery by solar panel in daytime, and turn off the switch at night <b>to stop discharge</b> , like this, 2 days could full charge the battery.
	LED Failure	Firstly, <b>adjust the DC power supply to voltage 9V and current less than 1A</b> , then connect the positive and negative electrode of DC power supply to LED, if LED could not light, could judge LED failure.	If ensure LED failure, <b>please contact us to return and replace.</b>
Short lighting time	Low battery	<b>Wrong installation or dust and leaves cover on panel cause not enough solar power to battery.</b> 1. Check whether there is dust or leaves covering on the solar panel; 2. Open the system, disconnect the battery and use multimeter to check the voltage of the battery, if voltage less than 11V, that could judge battery runs out or low power cause system could not work.	1. Charge battery by solar panel in daytime, and turn off the switch at night <b>to stop discharge</b> , like this, 2 days could full charge the battery. 2. Clean the solar panel.
	Battery Failure	1. <b>Open the light and check if battery is dispalced or outer has been damaged .</b> 2. Battery maturing, lights used more than 2 years.	1. If damage caused by transportation, please return to our factory for repairing or replacement. 2. Contact us to buy the same type battery if battery maturing.
No induct	Sensor Failure	Move in the range of detection under the half power lighting condition, if light not turns to full power, could judge the sensor failure.	If ensure failure caused by controller or sensor, please return to our factory for repairing or replacement.
Flashing light	Controller (timer) setting wrong	Intelligent mode open hHigh power lights have a shing light.	Return to our factory to reset or replace the products.

## Product warranty

Product name : \_\_\_\_\_ Product name : \_\_\_\_\_

FactoryNumber : \_\_\_\_\_ Date of production : \_\_\_\_\_

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

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

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

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

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

Guarantee content: \_\_\_\_\_ After sales: \_\_\_\_\_

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

Guarantee content: \_\_\_\_\_ After sales: \_\_\_\_\_

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

Guarantee content: \_\_\_\_\_ After sales: \_\_\_\_\_

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

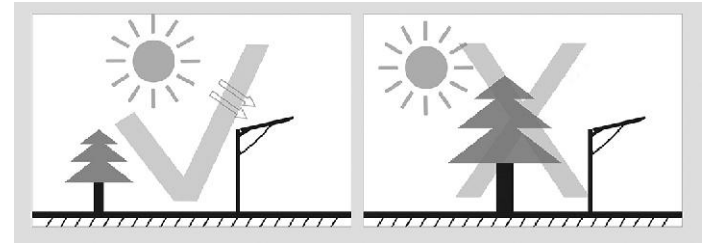
### Warranty terms:

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

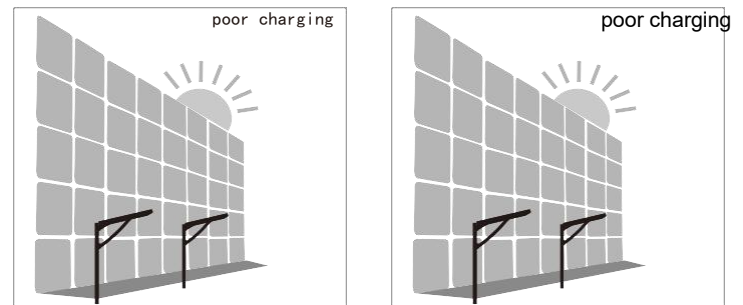
- Can not provide the letter of guarantee and valid proof of purchase.
- Malfunction and damage caused by wrong use and improper personal repair.
- Malfunction and damage caused by transport, move, drop after purchasing.
- Malfunction and damage caused by other inevitable external factors.
- Damage caused 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.

## installation instructions

### matters needing attention One:



### matters needing attention Two:



★ Please choose a place that is full of sunlight and can be completely exposed to the sun. Notice that the solar panels must be covered, and must be exposed to the sun.

## After sales service telephone