

CE CB RoHS



IST13 series LED Solar Street Lights

20W~80W

- A. The lighting fixtures adopt an integrated structural design, with better heat dissipation and longer lifespan;
- B. Using LUXEON 3030 LED beads, the overall lighting effect can reach up to 200lm/W;
- C. Adopting the most advanced MPPT tracking control technology to improve system efficiency and reduce costs;
- D. The solar controller is equipped with a built-in lightning protection module;
- E. The solar panel uses monocrystalline silicon, which has a higher conversion efficiency of up to 18% and a service life of up to 25 years;



bottom surface



side view



top surface

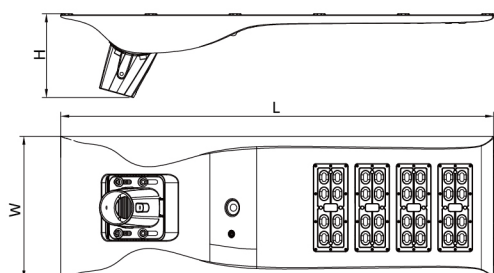
Technical Parameter

Product Number	IST13-30W	IST13-50W	IST13-80W
Rated Power	20-30W	40-50W	60-80W
LED's (pcs)	100	150	200
Led Light Luminous	> 180LM/W		
Color Temp	3000~6500K		
Color rendering index	>70 or >80		
Beam Angle	TYPE II		
System Voltage	12V DC		
Solar Panel	Monocrystalline silicon (efficiency>20%)		
Panel Power	40W/6V	50W/6V	65W/6V
Storage Battery	LiFePO4 (cycling time> 2000 times)		
Frequency Range	30AH/3.2V	75AH/3.2V	105AH/3.2V
Controller	MPPT		
Sensor Type	Infra-red (default) or Motion sensor, optional		
System Setting	Motion		
Ambient temperature	-20~55°C		
Lamp body material	AL Body, PC lens and GLASS cover		
Lamp size(mm)	697x361x209mm	846x361x209mm	1096x361x209mm
Installation diameter	Φ60/Φ76mm(default)		
IP Grade	IP65		
IK Grade	IK08		
IP Grade	>30000hrs, 3 years		
Authentication	ISO9001, ISO14001, ISO45001, CE, ROHS		

01

02

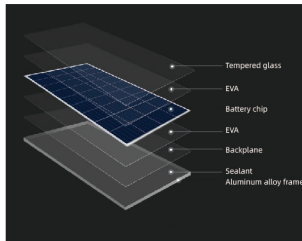
Product Size



产品型号	L	W	H
IST13-30W	697	361	209
IST13-50W	846	361	209
IST13-80W	1096	361	209

Product Display

The IST13 series is a simple, stylish, and compact solar street light that is widely used in any outdoor lighting location.



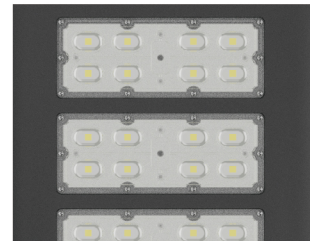
Efficient solar panels

After many tests and classification, qualified battery chips are selected, and special lamination process is adopted to ensure the adhesion strength between Eva and tempered glass and back plate.



LiFePO4 Battery

The cycle life is more than 1000 times, and it is safe to use without fire and explosion; High temperature resistance, large capacity, green environmental protection, non-toxic, pollution-free.



Four in one light source

Using four-in-one light source chip to obtain the best uniform illuminance and improve the lighting effect. High luminous efficiency, more energy saving, and cost-effective.



BODY

The body is made of high pressure die-cast aluminum with strong corrosion resistance. The overall modeling design is simple and atmospheric, modern and beautiful.



Smart controller

Intelligent power adjustment, automatic weather judgment, Reasonable excretion law planning is embedded in the microcomputer control system, A variety of intelligent control methods for charging and discharging, Make the entire system run more efficient and energy-saving.



Microwave induction

The light source is automatically controlled to light up through an induction module, and the most advanced planar antenna is used to effectively suppress the interference of high-order harmonics and other clutter. It has high sensitivity, strong reliability, safety and convenience, and is intelligent and energy-saving.

Performance Testing

•IP65



•IK08



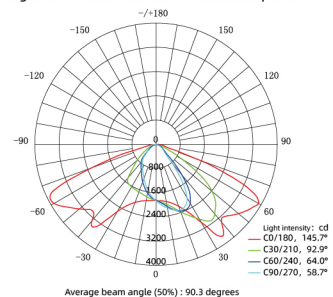
IP65: the dust density completely prevents the foreign matter invasion, and may completely prevent the dust invasion, prevents the spray water invasion, prevents from all directions by the nozzle spray water enters the lamps and lanterns to cause the damage;

Ko8:10J Impact Force (equivalent to the impact of a 5KG object falling from a height of 200mm on a surface) .

Light Distribution Display

The latest patented light source technology realizes the light emitted from the light source to form a bat wing shape through the special structure of the lens. Achieve the best uniform illumination, improve the lighting effect and increase the light coverage.

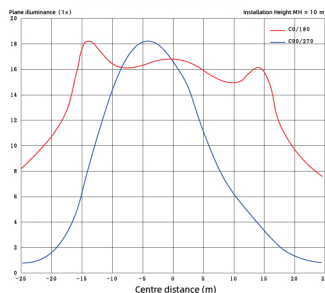
Light distribution curve of meridional plane



Grid: 10x6
 Average illuminance
 11.8(lx)

Minimum illumination
 8.1(lx)

Plane illuminance curve



Maximum illumination
 15.7(lx)

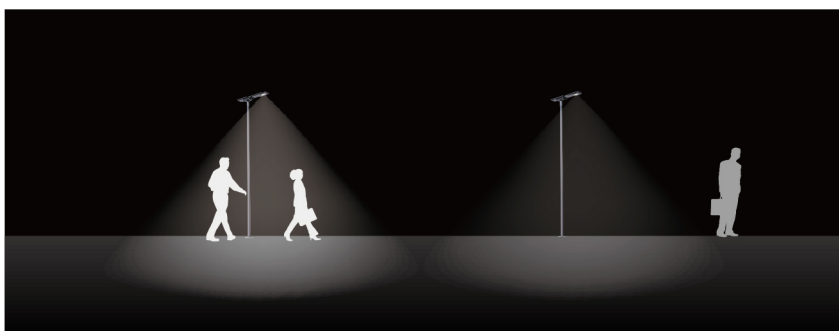
Unit: Lux, scale 1:151
 Average illuminance
 0.42(lx)

03

MICROWAVE INTELLIGENT POWER REGULATION

1. Time control: can be divided into 5 time periods, more user-friendly and energy-efficient;
2. Light sensing control: When night falls and the voltage of the solar panel drops below 3V, the light will automatically turn on;
3. Motion sensing control: In motion sensing energy-saving mode, when a moving object is sensed, the light will maintain a brightness of 10%; When no moving object is detected, the lamp will be in a low-power energy-saving state with a brightness of 10% -100% (adjustable)

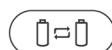
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Expandable solar panels



Efficient controller



LFP



Human body sensing

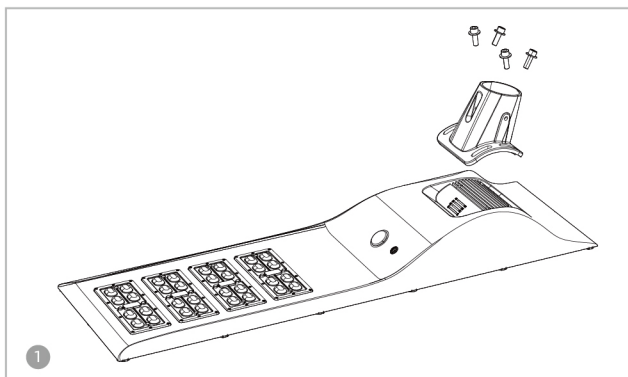


Efficient LED beads

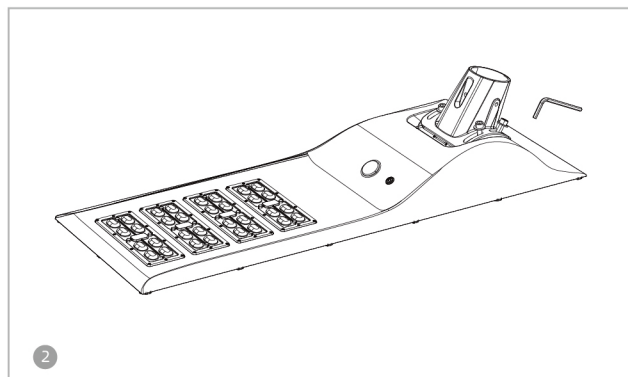


IP65

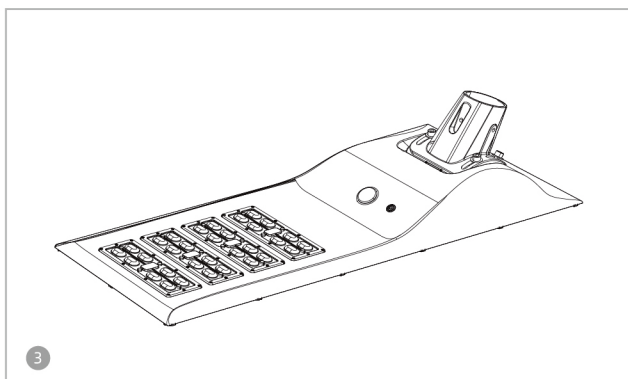
Installation instructions



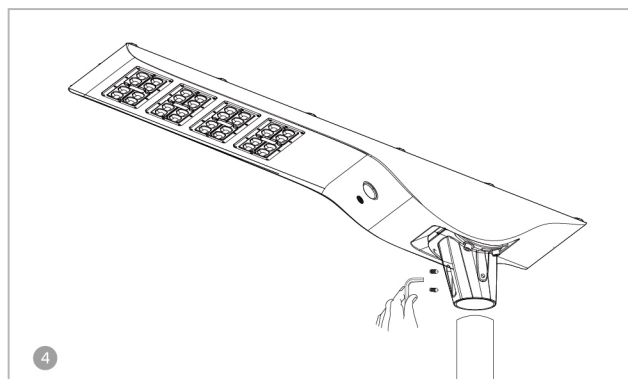
First, prepare the sleeve, 4 screws, and 4 washers and other accessories.



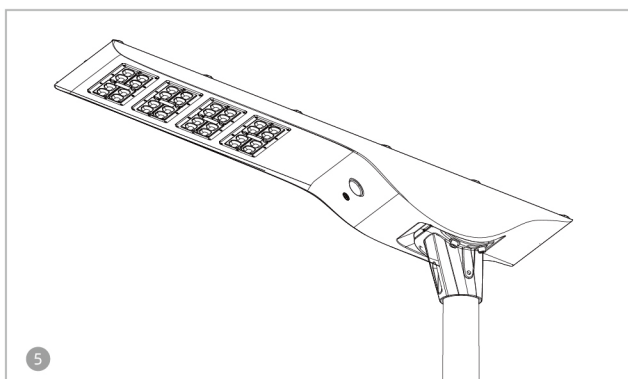
Then place the sleeve on the installation bracket in the middle of the solar street lamp, and clip the 4 screws and 4 washers into the lamp body from the sleeve.



Finally, adjust the socket to a suitable angle, and tighten the screws with a hexagon wrench to fix the socket.



Align the lamp with the lamp pole and insert it, and fix it with hexagon wrench and hexagon socket bolt.



The effect of fixing the lamp on the lamp post after installation.

Precautions:

1. The working voltage of this model of lamp is based on the product specification and reference to the product label.
2. All wiring must comply with national installation standards, and all joints must be properly connected and waterproof treated.
3. Lamp maintenance or replacement requires qualified personnel to replace to avoid danger.
4. The controller modulation should be operated according to the instructions.

Widely applicable to outdoor places such as rural and remote roads, urban secondary roads and community roads, industrial parks and logistics parks, scenic rivers and parks, emergency relief and military bases.



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