

CE RoHS



ISO9001 ISO14001 ISO45001



## IST9 series LED solar street lights

20~50W

- The IST9 series lights integrate all designs into one, with solar energy design combined with microwave motion sensors and integrated intelligent controllers, allowing for maximum utilization of light energy..
- The design of the bilateral distribution board makes it suitable for remote areas and areas without electricity supply.
- Deep cycle batteries are designed for 2000 charges and discharges.
- Run time: Enable smart models to run for 10 days on rainy days
- The power range is between 20W and 50W.



bottom surface



side view

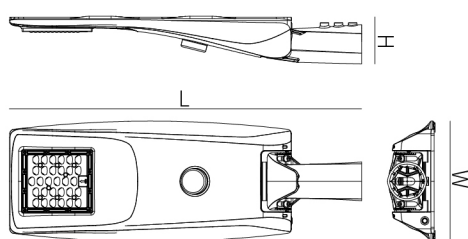


top surface

Product Number	IST9-3020	IST9-3030	IST9-5040	IST9-5050
Rated Power	20W	30W	40W	50W
LED Brand	LUMILEDS (SMD5050)			
Efficacy	>160LM/W			
Color Temperature	2700K-6500K			
Color Rendering Index	>70(default) or >80			
Beam Angle	TYPE II-S			
System Voltage	12V DC			
Solar Panel	Monocrystalline silicon (efficiency>20%)			
Panel Power	30W/18V	30W/18V	50W/18V	50W/18V
Storage Battery	LiFePO4 (cycling time> 2000 times)			
Frequency Range	20AH/12.8V	30AH/12.8V	40AH/12.8V	50AH/12.8V
Controller	MPPT			
Sensor Type	Infra-red (default) or Motion sensor, optional			
System Setting	According to customer requirements (Time+sensor dimming)			
Ambient temperature	-20~55°C			
Lamp body material	AL Body, PC lens and GLASS cover			
Lamp size(mm)	750x257x102	750x257x102	945x298x126	945x298x126
Installation diameter	Φ60mm			
Protection level	IP66			
Life/warranty period	>30000hrs, 3 years			
Certifications	ISO9001, ISO14001, ISO45001, CE, ROHS			

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## Product Size



Model	L	W	H
IST9-5020	750	257	102
IST9-5030	750	257	102
IST9-5040	945	298	126
IST9-5050	945	298	126

02

## Two assembly methods

Adopting an angle adjustable sleeve, the angle can be adjusted into: horizontal or vertical installation;The battery compartment can be equipped with fixed accessories, allowing for greater angle adjustment at the battery compartment area. Meet different lighting environment requirements.



Vertical installation



Horizontal installation

## Efficient application of double glass



Ultra high light efficiency, with a total light efficiency of 160LM/W



Efficient monocrystalline silicon solar panels with a total conversion efficiency of over 20%.



Independent battery compartment design, protecting the battery for easy battery replacement.



The sleeve is easy to install and can adjust the optimal angle of the solar panel according to the path of the sun.



There are two installation methods: horizontal and vertical, suitable for various applications.



Intended to replace traditional lighting systems. There are options from 20w to 50w to meet all road lighting requirements.



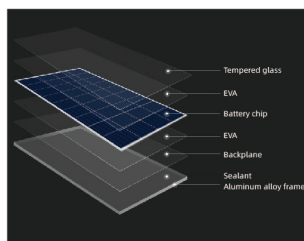
Various road optical designs can adapt to various road conditions while ensuring the effective utilization of light.



Featuring a built-in MPPT/microwave motion sensor and smart controller

## Product Display

FL38 series is a simple ,fashionable and compact flood light , widely used in outdoor any lighting places



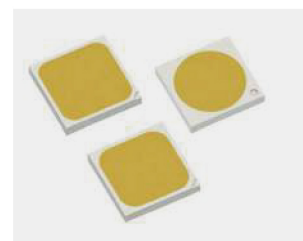
### Efficient solar panels

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.



### High efficiency LED

Using high-efficiency LED, the luminous efficiency is up to 160lm/W. The light sealing lens is made of anti ultraviolet PC, which has anti-aging and impact resistance performance, realizing long-term use.



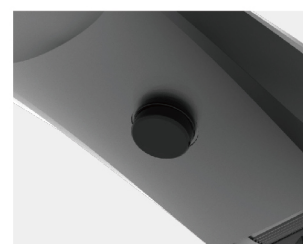
### Multi angle adjustable

The angle can be adjusted according to customer needs to adapt to different installation environments.



### 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 Design

Automatically control the lighting of the light source through the induction module, Using the most advanced planar antenna, Effectively suppress the interference of higher harmonics and other clutter, Strong reliability, safety and convenience, intelligent energy saving.

03

04

## Performance Testing

### •IP65



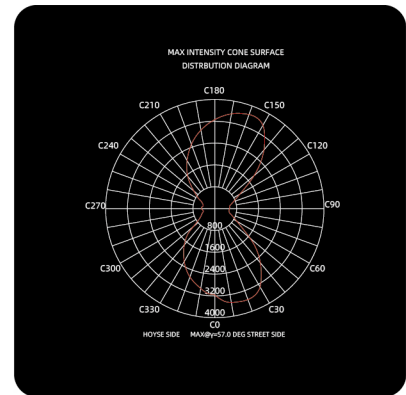
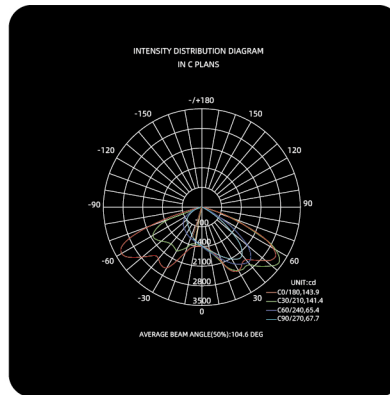
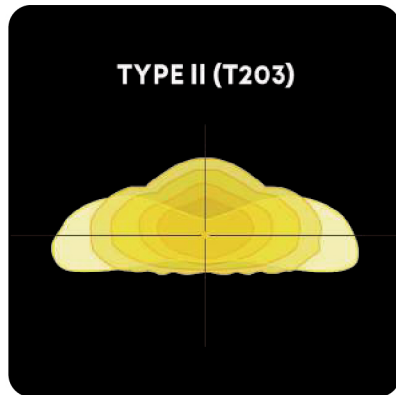
### •IK08



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;

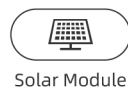
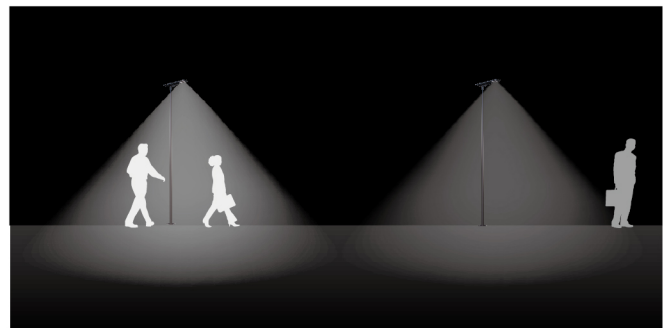
IK08:All-round sealing, anti-drop, anti-collision, Adopt ADC12 material, sturdy and more durable.

## Light Distribution Display



## INTELLIGENT POWER ADJUST

comes complete with built-in motion detection system that automatically regulate the light source from full bright to dim mode to increase battery autonomy.



Solar Module



Efficient  
Controller



LiFePO4 Li-ion  
Battery



Motion  
Sensor



Superior  
Outdoor LED



IP65  
Waterproof



05

06

## Applications:

Widely used in factories, mines, squares, transportation hubs, stadiums, golf courses and docks, etc.

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