

HIGHLIGHT SP-INO-SSL

Specifications



Why us?

Innovative Technology

High-efficiency solar and advanced LEDs deliver superior performance, long life, and maximum ROI.

Photometric

We conduct photometric measurements on all our products to ensure optimal performance and compliance with industry standards

Versatile Lightning

We designs and install solar-powered lightning systems tailored for all kind of locations such as streets, parks, pathways, homes, etc.

Global Reach

Worldwide success proves our adaptability and regulatory expertise.

Sustainable Savings

These solutions enhance safety, promote sustainability and providing significant energy and cost saving.

Warranty

SolarPath is dedicated to delivering architectural and commercial-grade solar lighting that can be customized to meet specific client requests, both in technical specifications and aesthetic design, ensuring a perfect fit for a diverse range of needs.



The design of solar street light / courtyard light absorbs energy from the universe, and combines it with high efficiency solar panel, LEDs, and Lithium battery. It adopts advantage technics such as micro-controller, human infrared sensor and so on and combines with integrated design to achieve multiple features such as low power consumption but high brightness, long lifespan and maintenance free, meanwhile with waterproof function and great thermal dissipation. The intelligent control can be reprogrammed from the ground with an infrared before and after install. It is one of our great innovation patented products.

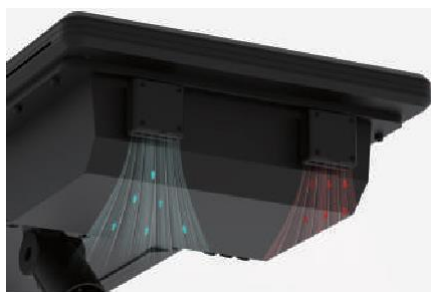
Technical specification

Solar Module Parameters	Type	High-efficiency Monocrystalline Silicon
	Power	Up to 200W
Solar Charge Controller	MPPT (Maximum Power Point Tracking), infrared solar charging controller)	
Battery	LifePO4	Up to 87AH
	Battery enclosure	Integrated in Solar panel
LED Light Parameters	Light Source Power	140W (Up to 25,200 lm)
	CCT (Correlated color temperature)	3,000K-5,700K
	CRI (Color rendering index)	>70
Working Mode	Depend on customer request and solar radiation. Always dim on 40% brightness, when motion sensor trigger the light jump up on 100%	
Control Modes	Lighting sensor, Timing function, Period function, Remote control function	
IP Rating	IP67	
Material	Aluminum Die-casting	

KEY FEATURES

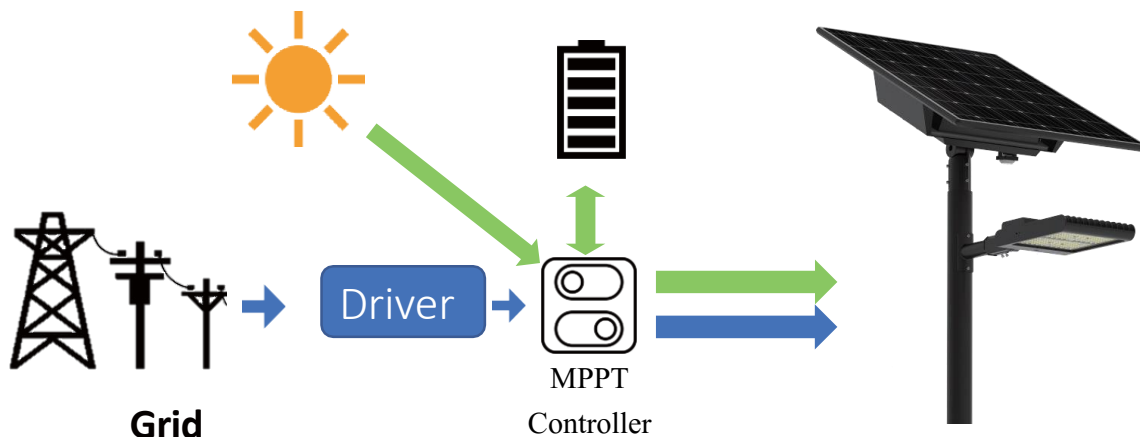
- The world's first enterprise to obtain UL certification for North American solar street lights
- Split design to meet various installation requirements Ultra-low temperature battery which can
- operate in $-20^{\circ}\text{C}/-4^{\circ}\text{F}$ (Optional)
- Solar panel with up to 22% conversion efficiency and key materials with UL certification. IOT(Optional)
- High brightness output:190LM/W
- Built in MPPT controller with motion microwave sensor Remote control with multiple energy-saving modes
- Professional light distribution design
- Auto-heating function(Optional): Heating starts when the battery temperature at $0^{\circ}\text{C}/32^{\circ}\text{F}$ and stops at $6.5^{\circ}\text{C}/43.7^{\circ}\text{F}$ (only when charging)
- Auto-cooling function: Cooling starts when the battery temperature at $50^{\circ}\text{C}/122^{\circ}\text{F}$ and stops at $40^{\circ}\text{C}/104^{\circ}\text{F}$

Schematic diagram of fan cooling system operation.



Draws cool air from the outside environment into the battery component, more effectively dissipates heat inside. Expels hot air through mesh holes, helps to maintain a more even temperature distribution inside to extend the life of battery.

HYBRID POWER SYSTEM(Optional)



Hybrid Power System sketch map

Hybrid Power System

Built in smart controller, detects battery level, automatically switches power sources.

The hybrid power system is energy saving, and can also support uninterrupted power supply.

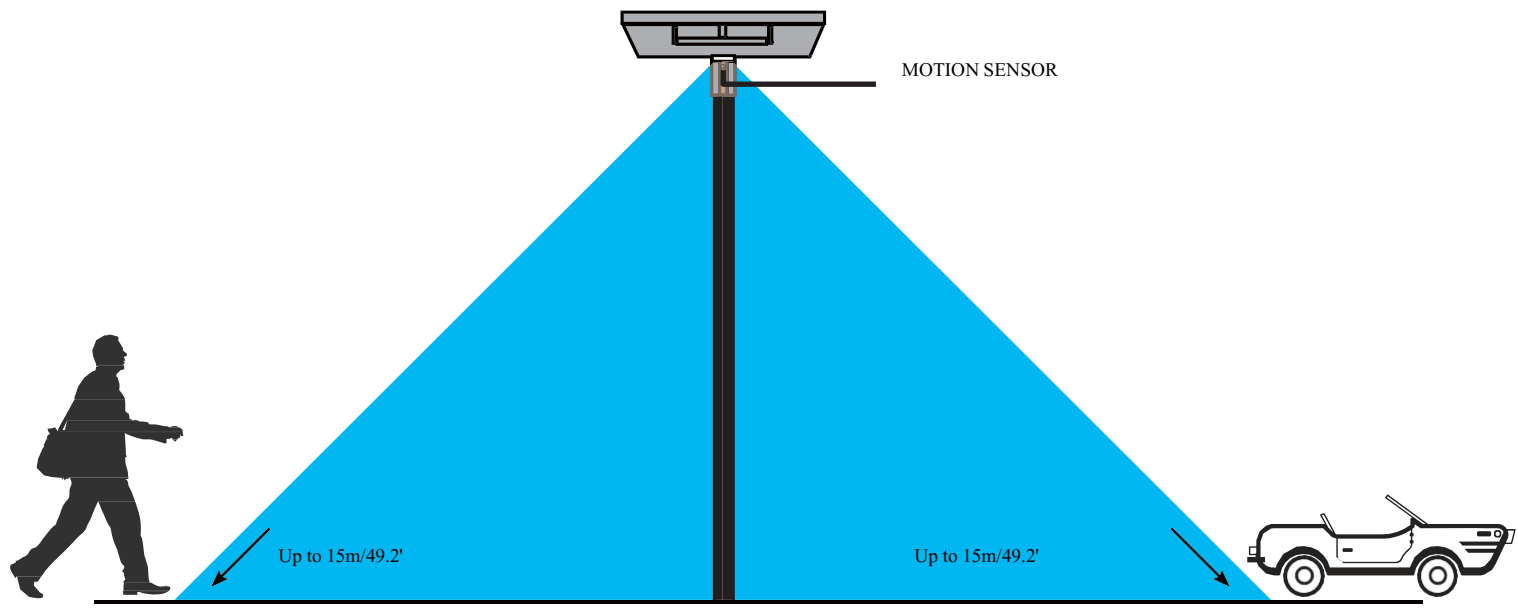


Battery level above 10%, powered by the battery.



Battery level below 10%, powered by the power grid (100-277V/277-480V AC 50/60Hz).

BEST FACING DIRECTION OF SOLAR PANEL



IES/ BEAM

50W

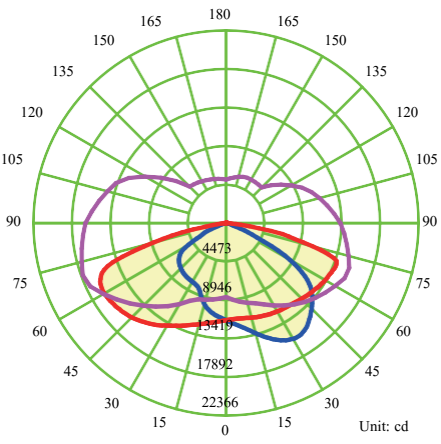
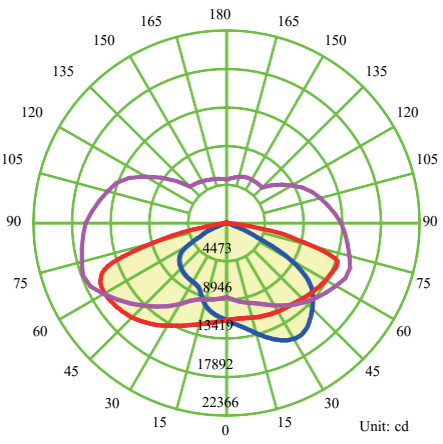
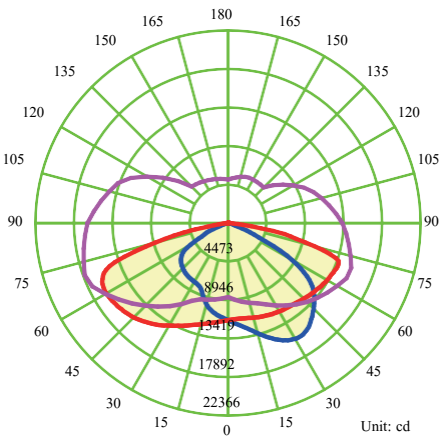
100W

140W

Luminous Intensity Distribution Curve

Luminous Intensity Distribution Curve

Luminous Intensity Distribution Curve

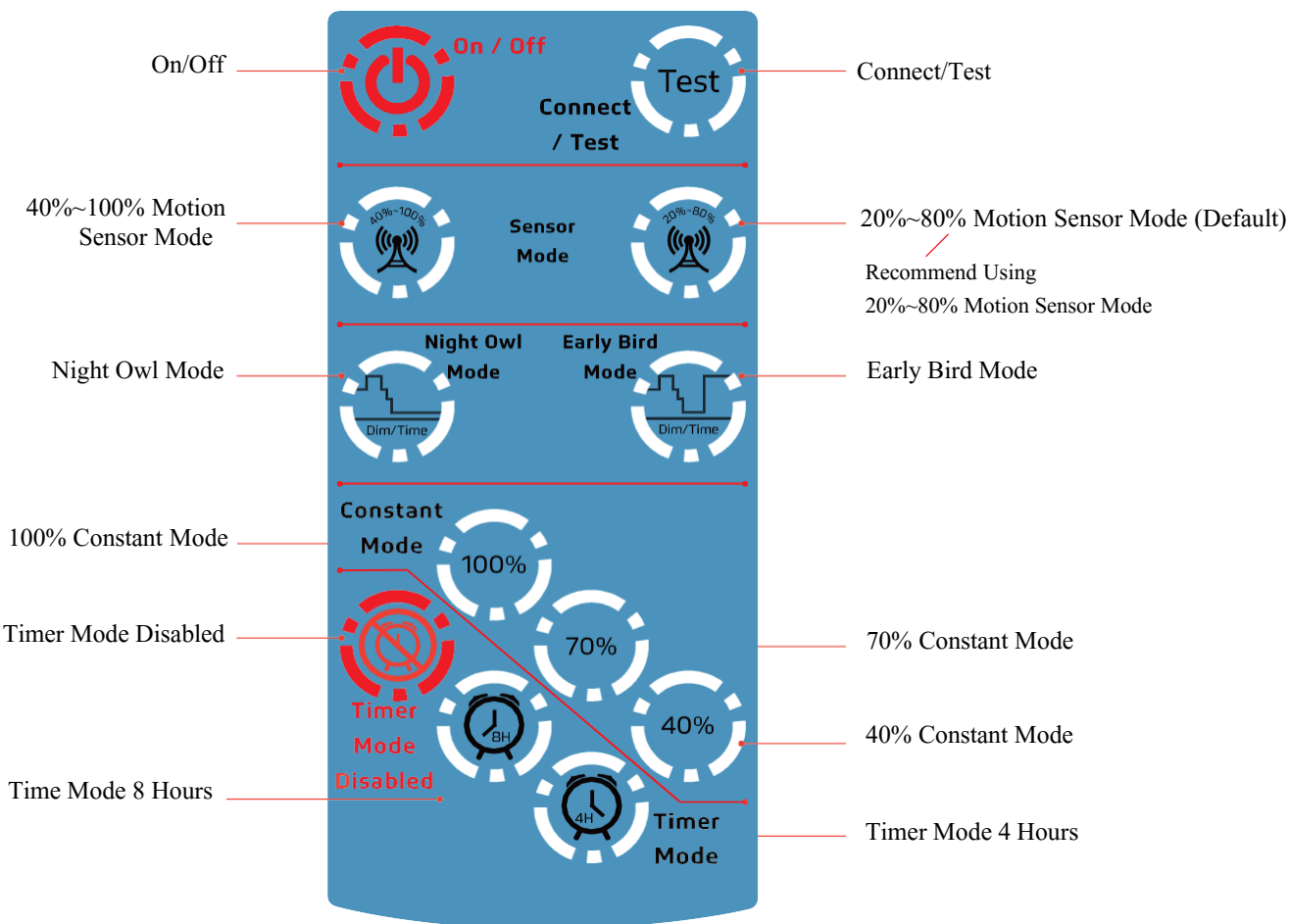


C0-C180 C90-C270 G60

C0-C180 C90-C270 G60

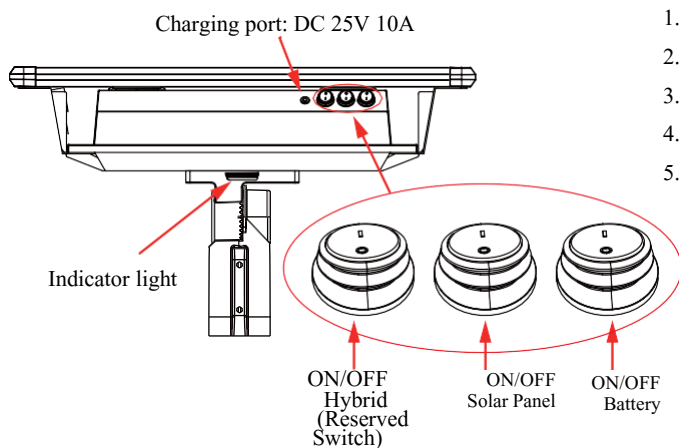
C0-C180 C90-C270 G60

Remote Control Guide



*For detailed description of each mode, please refer to the product installation manual.

Indicator description

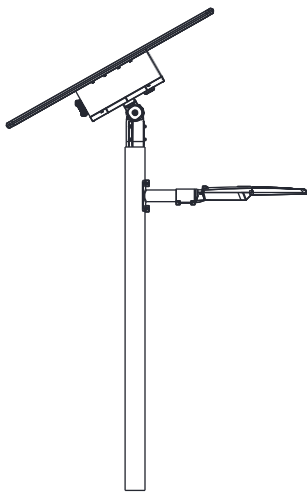
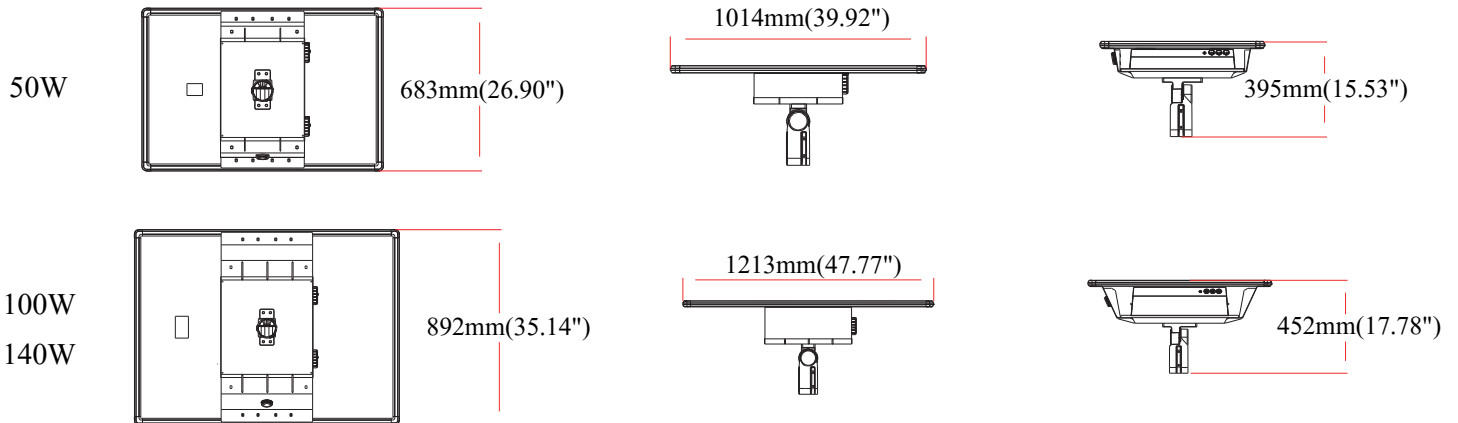


Normal Outdoor Operation:

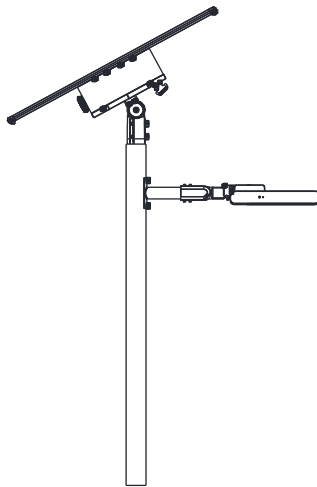
1. The light has been charged and ready to work (Stand by Mode): Solid red indicator
2. The battery has less than 10% charge: Green indicator flashes
3. The light is on (Working Mode): Solid green indicator
4. Switch to on-grid power: Solid blue indicator (Optional)
5. The battery is charging (Stand by Mode): Red indicator flashes

Note: The letter on the switch indicates the state, where 'I' stands for 'On' and 'O' stands for 'Off'.

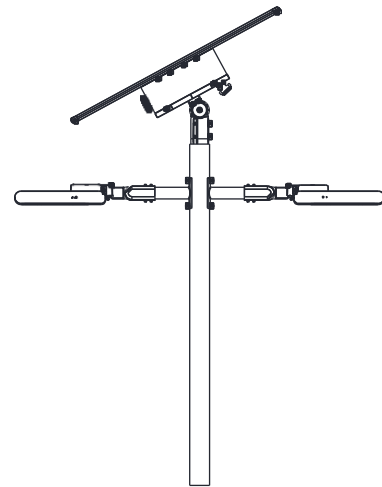
Fixture drawing



Street Light Head



Area Light Single Head



Area Light Dual Head



Street Light Head



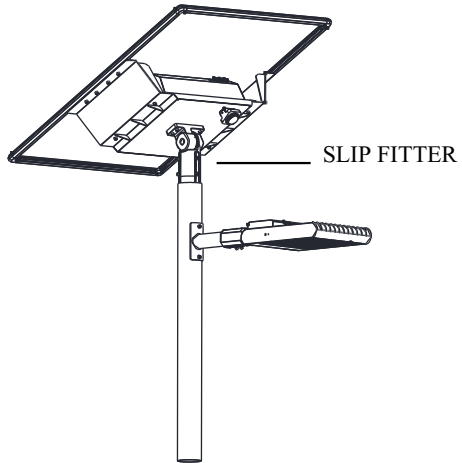
Area Light Single Head



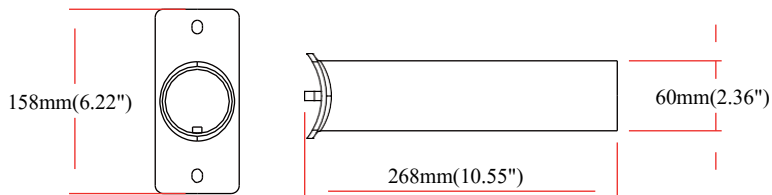
Area Light Dual Head

INSTALLATION ACCESSORIES

POLE MOUNTED STRAIGHT ARM



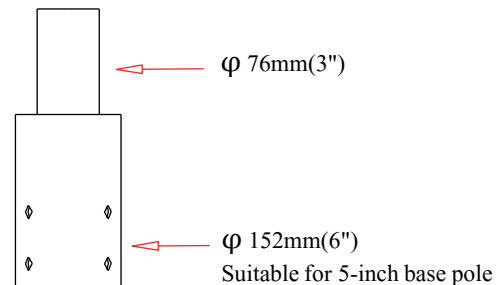
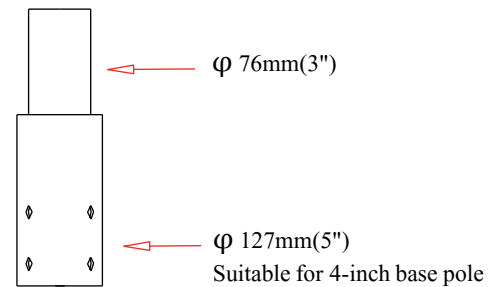
DIMENSIONS OF STRAIGHT ARM



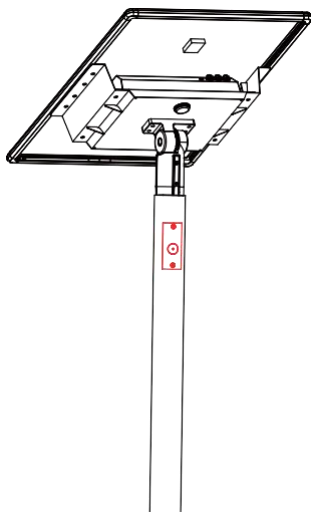
DIMENSIONS OF LIGHT POLES THAT CAN BE INSTALLED

The solar panel module can be directly installed on a 3-inch light pole. This adapter is required when installing the solar panel module on a 4-inch or 5-inch light pole.

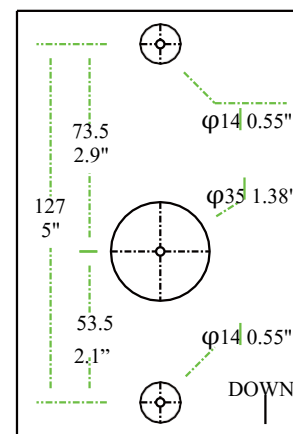
DIMENSIONS OF STANDARD ADAPTER



DETERMINE THE HOLE POSITION (ACCORDING TO YOUR NEEDS)



HOLE POSITIONING LABEL





USES AND APPLICATIONS GUIDE

Streets Lighting	
Parking Lots	
Residential Roads	
Public Parks	
Playgrounds	
Gardens	

ORDERING GUIDE

Ordering Guide: HIGHLIGHT SP-INO-SSL-A-115W-20W-3-30K -52AH-1-BLK-00

Model	Solar Panel Qty.	LED Head	Solar Panel	LED Power	Distribution type	LED Color Temp	Battery Options	Arm	Body Color	Options
HIGHLIGHT SP-INO-SSL	A – 1pc B – 2pcs	A –  B – 	115W 200W	50W 100W 140W	3- Type III	30K 40K 50K 57K	52AH 87AH	1 - Single Arm 2 - Dual Arm	BLK- Black	00 - No motion sensor 01 - With motion sensor



*Up on request

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Contact us



+1.201.490.4499

Toll free: 1.888.333.SOLAR (7652)



contact@solarpathusa.com



www.solarpathusa.com