

LED Reflector
LD SSL 80W/120W StarTrek - Specification Sheet

Product model:	LD-SSL-80W-StarTrek / LD-SSL-120W-StarTrek
Wattage:	80W / 120W
Lumen:	12000LM / 18000LM
LED Type:	SMD 5050*42pcs / SMD 5050*63pcs
Solar Panel:	Mono-crystalline silicon (58Wp) / Mono-crystalline silicon (82Wp)
Battery:	460.8Wh-12.8V, 36AH / 614.4Wh-25.6V, 24AH
Charging time:	8Hrs DAY / 8Hrs DAY
Dimension(mm):	1178*386*243mm / 1616*386*243mm
PIR Sensor range:	Angle 180°, Detection area 6-15M
Beam angle:	140x70° - TP111
IP Class:	IP 65
Surface Color:	Black
Housing Material:	ABS+PC Aluminium
Working Temp:	-20C° - 60C°
Storage Temp:	0C° - 45C°
Wind resistance:	Typhoon 16
Effective surface projection:	375m ² / 400m ²
Applicable pole diameter:	60mm



80W 12000LM

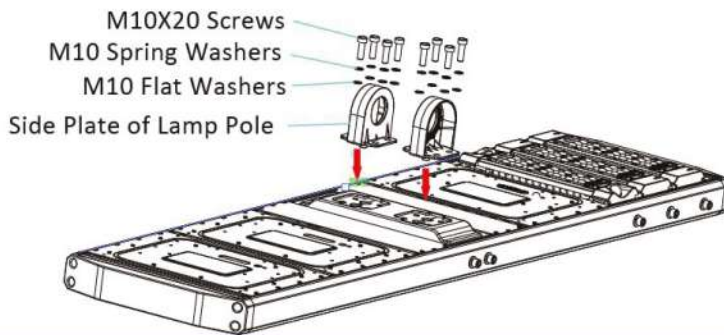
120W 18000LM



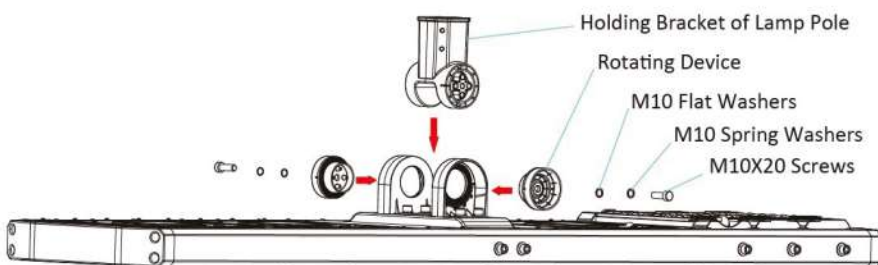
Installation

Remind: Please prepare tools and accessories firstly. Each packing includes:

Solar Light * 1pc	M10x20 Screws * 14pcs	Side Plate of Lamp Pole * 2pcs
Remote Control * 1pc	M10 Spring Washers * 10pcs	Holding Bracket of Lamp Pole * 1pc
User Manual * 1pc	M10 Flat Washers * 10pcs	Rotating Device * 2pcs



1. Put the side plates of lamp pole in the direction, then fix the side plates to the lamp with flat washers, spring washers and screws.



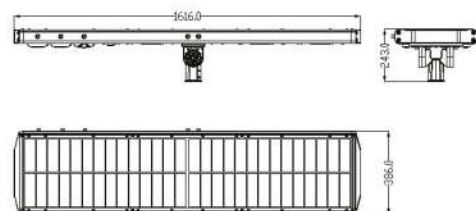
2. Put the holding bracket of lamp pole into the side plates in the direction, stuck the rotating device to the holding bracket and fasten them with flat washer, spring washer and screws

Size drawing

80W

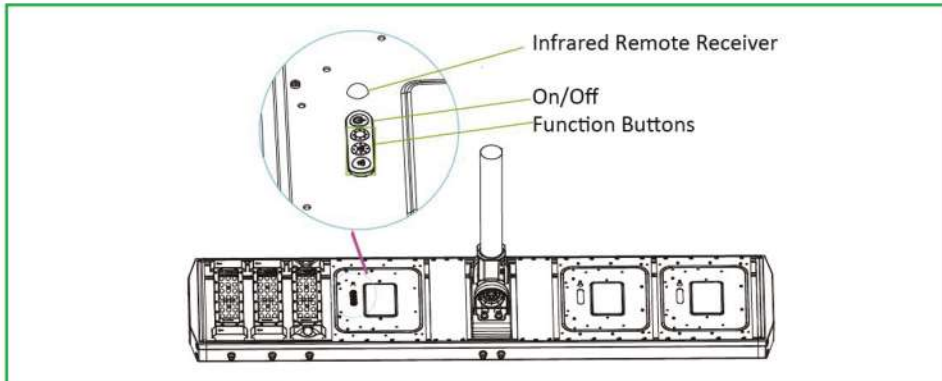


120W

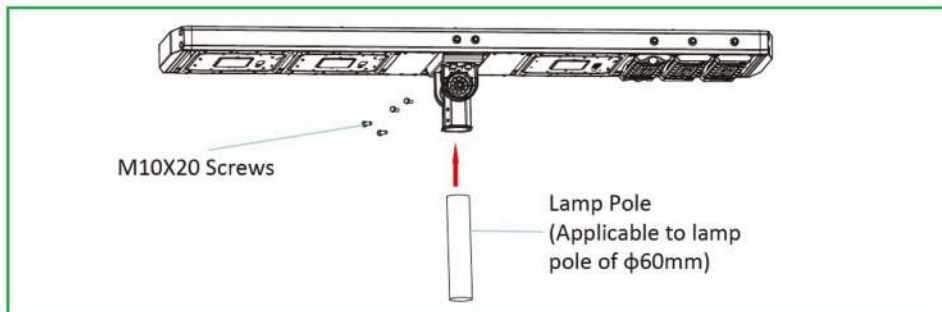


Installation

3. Loosen the solar panel screws, adjust the solar panel to the appropriate angle according to the local weather & sunshine directions, then tighten the screws. Loosen the light panel screws, adjust the light panel as per demanded lighting directions & area, then tighten the screws.



4. According to the operation instructions, activate the lamp and remote firstly, then select the demanded working mode.



5. Put the holding bracket onto the lamp pole, and fix them tightly with screws.

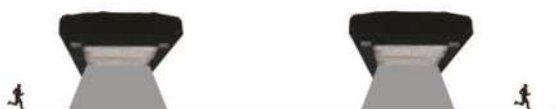
Working modes

Signal Area:
 >Built-in remote control receiver
 >Built-in working or Fault indicator light(Red, Green, Blue, Yellow lights)

On/Off Button:
 >Only for on/off, without any function selection.
 >Press the button to turn off lamp, remote control not work, solar panel not charging.
 >With memory.

Constant Lighting Mode

Default setting under Constant Lighting Mode:
 Automatically turns on at dusk and remains 50% brightness till it's dawn or power's off.





Working modes

You can also reset the brightness and hours as demanded by remote control:







1). Under Constant Lighting Mode, brightness can be set vary: 10%/30%/50%/60%/80%/100%.

Lighting on time can be set vary: 1H/2H/3H/4H/6H/8H/10H.

2). Under Constant Lighting Mode, when you only select how many % brightness, but not select lighting on time, it will be defaulted as keep constant lighting till it is dawn or power off. (For example: Press constant lighting on button , then select brightness button , without select any hour button, it means the working mode will be 30% brightness constant lighting on till dawn.)

3). Under Constant Lighting Mode, selecting both brightness button A% and hour button B hrs, once it finish the required working, it will turns to sensor mode automatically.

(For example: Press constant lighting on button , then select brightness button  and hour button , it means the working mode will be 80% brightness constant lighting on for 3 Hrs, then turns to sensor mode until it is dawn, under sensor mode, it is 100% brightness when motion detected and 20% brightness when no motion.)

4). When reset the brightness or hour, please make sure to press constant lighting on button  firstly. Whether press brightness button or Hour button first both are okay.

5). When the mode/Hour/Brightness button on the remote control is pressed, lamp will flash once every time, it indicates that the operation is successful.

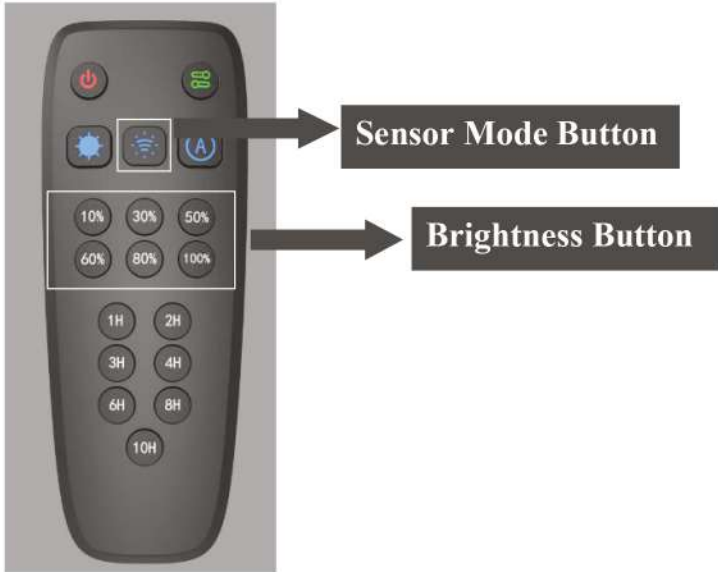
 **Sensor Mode**




Default setting under Sensor Mode:

Automatically turns on to 100% brightness when motion is detected and then dim to 20% brightness when no motion.







Working modes



1. Default Dim brightness is 20%, but factory setting can be set from 10%~100% as customer's requirement.
2. Under sensor mode, how many % brightness can be set. For example: Press Sensor Mode Button , then press brightness button , it means working mode will be when motion is detected 100% *60% brightness , when no motion, 20%*60% brightness.
3. When press sensor mode button , it turns to sensor mode automatically all night.
4. Under Sensor mode, Hour Buttons are invalid.

 Customized Mode (Selectable)

1. Press Customized Mode Button , it is customized mode.
2. If no special requirements, its defaulted working mode: Automatically turns on at dusk and remains 100% brightness for 5 hours, then it automatically turns to 50% brightness constant lighting till dawn.
3. Brightness Buttons and Hour buttons are invalid under this mode.
4. , , , only 1 choice between 3 options is available at a time.



Indicator functions

Indicators	Signs	Functions
Charging Indicator (Green Light)	Flash slowly(Flash 1 time/2 Second, keep repeating)	MPPT Work as normal
	Flash fast(Fast Flash 3 time then off for 2 Second, keep repeating)	Charging voltage of Solar Panel can't meet the requirement of Battery Voltage(Early Morning or Solar Panel is covered that can't get charging)
	Off	Solar Panel out of connection/Night/Battery is almost fully charge(fully charge)/battery out of connection/ battery isn't charging
Battery Indicator (Red Light)	Off	Battery works as normal
	Flash slowly(Flash 1 time/2 Second, keep repeating)	Battery over discharge(Out of Power)
	Constant Lighting(While Green Light Off)	Battery is almost fully charged/fully charged.
LED Indicator (Blue)	Off	LED work as normal
	Fast Flash(Fast flash 3 times then off 2s, keep repeating)	LED output over-voltage
		LED short-circuit protection
PIR Sensor Indicator (Yellow)	Constant Lighting	Motion detection works as normal
	Off	No Sensor/Day time, normal.

Special Notes:

1. The lamp is with memory function, will keep current working mode till it's re-set.
2. Remote controller for function selection, only works after on/off button of lamp turns on.
3. Button on lamp only works for on/off, without any function selection.
4. On/Off Button on lamp turns off, it won't keep charging of solar panel.
5. Solar panel keeps charging when lamp turns off only by Remote controller.
6. Inside fault indicating lamp with 4 color (red, green, blue, yellow.)

Features & Advantages

- Unique patent design, smart, durable.
- Patent smart working modes, adjustable brightness& lighting time.
- Remote controller add in, easy to change the work modes.
- SMD5050 chips high brightness 150lm/w, professional light distribution optical lens, brighter.
- Polarized light design of beam angle 140X78°, wide lighting area with high illuminating on the ground.
- LiFePO4 battery, high temperature resistance, long life, high safety, charge and discharge protection.
- High quality mono-crystalline silicon solar panel, high efficiency conversion solar power to electricity.
- Lights modules are 80° adjustable, you can easily adjust to demanded lighting directions.
- Solar panel is 180° adjustable to the best angle for most sunshine absorption.
- Scientific human induction design, 2 PIR sensors on each side, makes the body movement detection in wider angle and longer distance.
- Equipped with Fault indicator light red, green, blue, yellow, easy to check and maintenance.
- Metal lamp body, heat radiation structure, IK09, strong and durable, IP65, resist Typhoon Level 16.

Cautions

1. This is a solar powered lamp, please install it in a location where can get enough sunshine.
2. Please note the lighting time depends on the sunshine duration & weather.
3. Built-in intelligent IC is with over-charge, over-discharge and over-voltage protection.
4. The lamp get solar charged at day time and lights up automatically at dusk.
5. The lamp is equipped with an internal battery pack, which is replaceable. If any need, please contact seller for correct new battery pack.
6. If the battery is taken out and put back in or replaced with new ones, please toward the solar panel to sunshine or a strong light to activate the lamp.
7. Non-professionals please do not disassemble the lamp.
8. Please do not dispose the battery with household garbage to avoid explosion.

Application

