



ALL-IN-ONE Solar Street Light

400W

LED solar street lights are composed of photovoltaic power generation system, energy storage system, and light control system. The 18%+ conversion rate solar panel converts solar energy into electricity and stores it in battery, which provides power to the lighting control system at night, realizing 100% energy saving.



>>> ADVANTAGES



► **Cope Harsh Weather, IP65 Waterproof**

This solar street light has very good waterproof, rainproof and lightning-proof performance, -4° F~120°F temperature resistance, IP65 waterproof, can work in all kinds of bad weather.

► **High Brightness Solar Light**

Our solar street light features 160 lm/w output lumens, which could provide super bright light meet your demand. It uses high quality SMD5730 LED chips to give you the best illumination experience but won't consume too much energy.

► **Secondary optical design**

The secondary optical design makes the light emitted by the LED light source illuminate the illuminated area through the secondary focusing, so that the light can be effectively used.



>>> PRODUCT DETAILS



SOLAR STREET LIGHT

Battery

Using LiFePO4 battery, the battery has undergone strict safety testing, and the charging speed is fast, high temperature resistant, green environmental protection, non-toxic and pollution-free. Long service life, can be cycled more than 2000 times.

ABS Lamp Housing

The lamp body is made of ABS, which has good heat resistance, corrosion resistance, and excellent impact strength, which can be used at extremely low temperatures. In addition, ABS has good electrical insulation and is almost unaffected by temperature, humidity and frequency, so it can be used in most environments.

Anti-UV Optical lens

The Lens makes the light spot is uniform, there is no astigmatism, no shadow, and the transmittance is very high, which maximizes the utilization of LED light.

Solar Panel

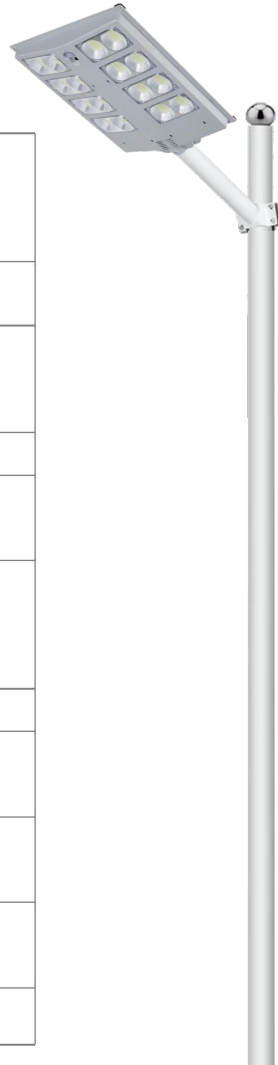
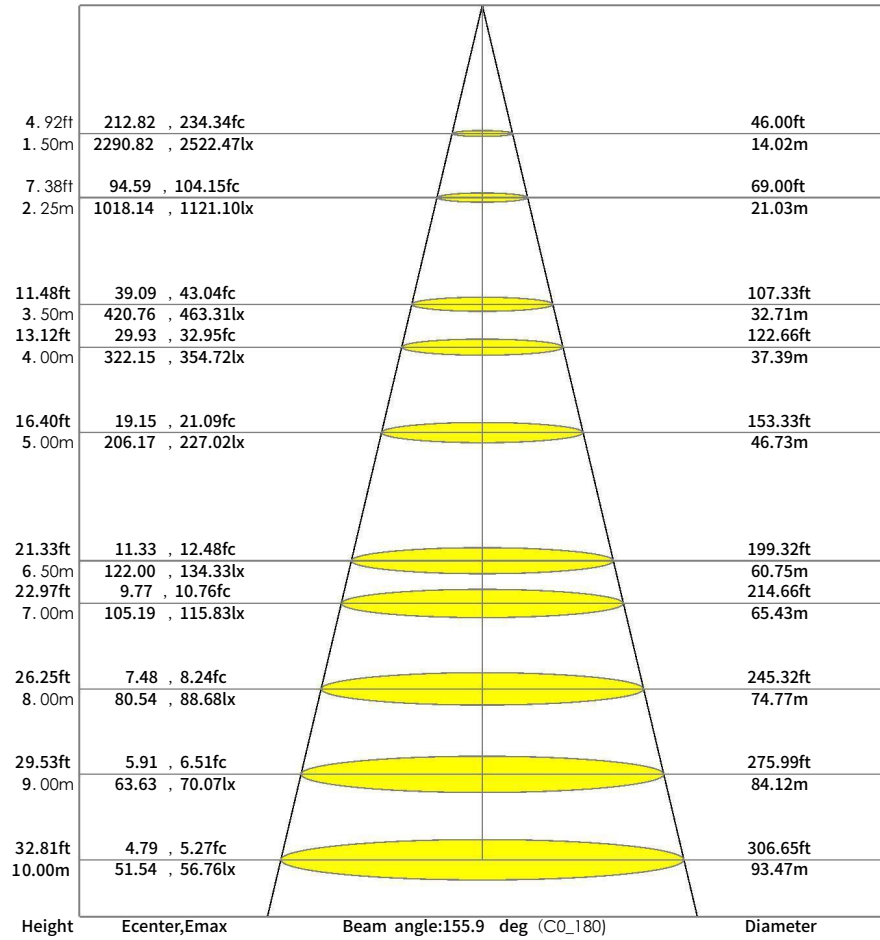
High quality polycrystalline silicon material, high charging efficiency, long lifespan

LED Chip

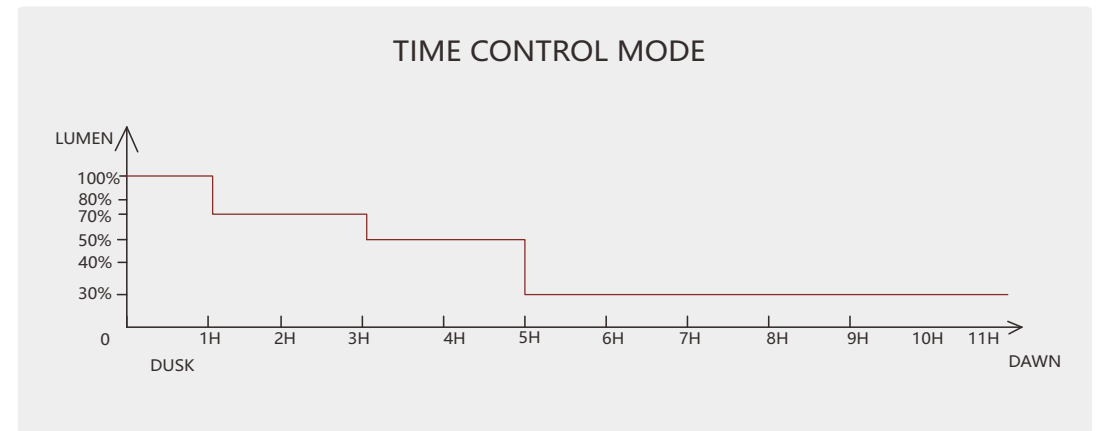
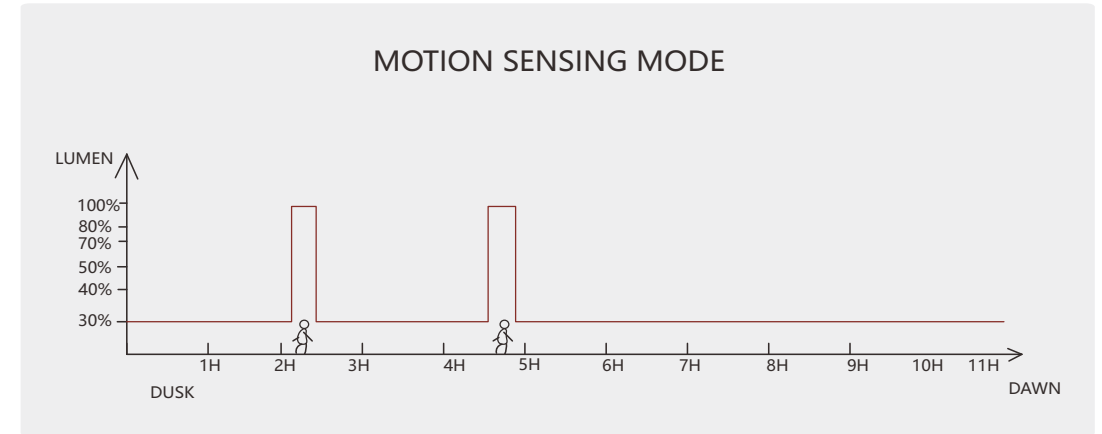
Built-in LED chip, enable solar street lights to emit high brightness with low heat even after long time usage.



>>> LX-DISTANCE DIAGRAM



>>> HOW THE LIGHT WORKS





>>> BATTERY SPECIFICATION

DesignLife	6-8 years
Nominal Voltage	3.2V
Nominal Capacity	15AH
Self-Discharge	
3% of capacity declined per month at 20°C (average)	
Operation Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max.Discharge Current 77°F(25°C)	50A(5s)
Short Circuit Current	100A

BATTERY



LiFePO4

>>> BATTERY GUARANTEE OF QUALITY

Battery Cells

High-end battery cells keep every cell's voltage, resistance, capacity, discharging always in sync.

Battery Protector

High precision IC keep performance more stable protect over load, over charge, over discharge, short circuit, over voltage, over current keep battery pack always safe and long life span.

Precision Welding Machine

Fully automatic precision welding machine can ensure that every battery can be welded firmly to prevent the danger of short circuit or power failure.

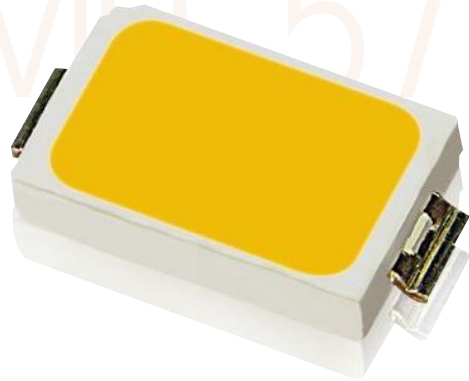
Aging Test Machine

every battery pack need to thorough charging and discharging test by the aging test machine to keep 100% qualified.



>>> SMD 5730 INTRODUCTION

SMD 5730



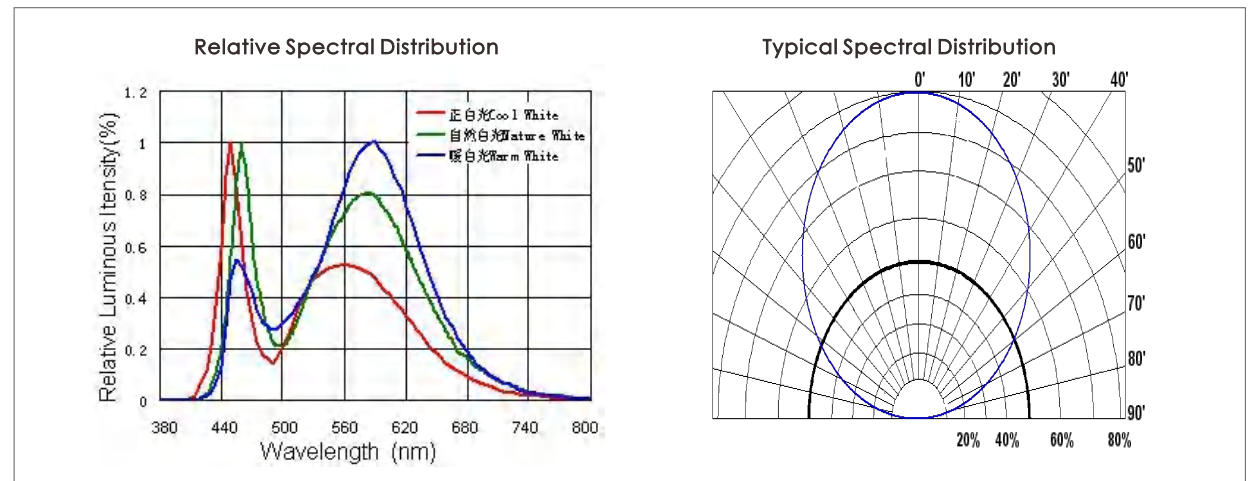
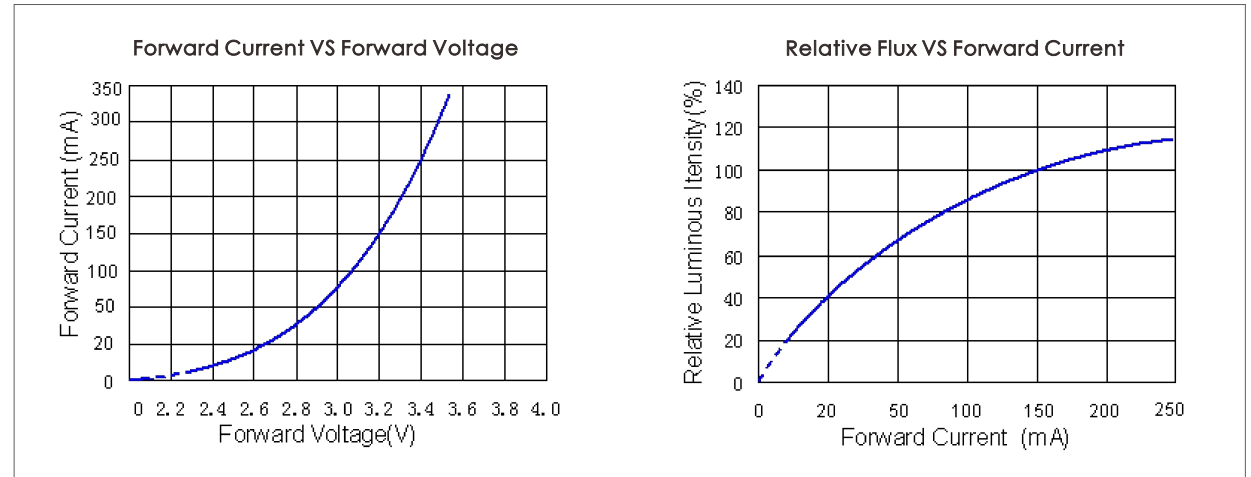
Features:

- Super high efficiency
- High reliability performance
- Viewing angle 120°
- Suitable for all SMT assembly and solder process
- Complied with RoHS directive

SMD 5730



>>> TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES





>>> SOLAR PANEL SPECIFICATION



Specifications

Peak Power(Pmax)	20
Maximum Power Voltage(Vmp)	6
Maximum Power Current(Imp)	3.33
Open Circuit Voltage(Voc)	10.17
Short Circuit Current(Isc)	3.5
Cells Efficiency(°C)	18.09
Module Efficiency(°C)	13.93
Power Tolerance	0~+3%
Pmax Temperature Coefficients(W/°C)	-0.400%
Voc Temperature Coefficients(V/°C)	-0.300%
Isc Temperature Coefficients(A/°C)	+0.060%
NOCT Nominal Operating Cell Temperature(°C)	45±2
Operating and Storage Temperature(°C)	-40~+85
Standard Test Condition(STC)	1.000W/m ² ;AM 1.5;25+/-2°C

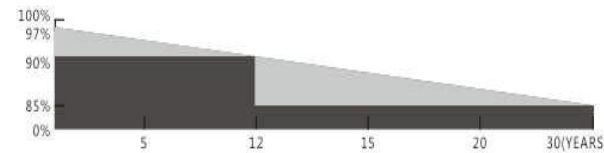
Mechanical characteristics

Front Glass	3.2mm high transmission,low iron,tempered glass
Junction box	IP65 Rated

Product Standard

Product Performance	IEC61215
Product Safety	IEC61730

Linear Performance Warranty



12
YEARS

Guarantee on product material and workmanship

30
YEARS

Linear Power output warranty

Key Features



5 Busbar Cell:

5 Busbar Solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance making it perfect for rooftop installation and application



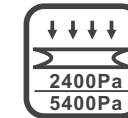
High Efficiency

High Module conversion efficiency, through innovative manufacturing technology



Low-Light Performance

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



Serve Weather Resilience

Certified to withstand wind load (2400Pa) and snow load (5400Pa)



Durability against extreme environmental conditions

High salt mist and ammonia resistance certified by TUV



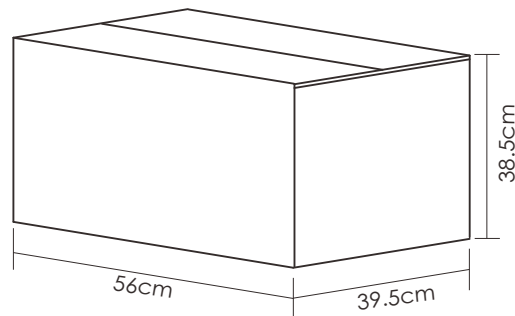
0-+5W Positive Tolerance

Detailed information in Electrical Specifications



>>> PRODUCT SPECIFICATION

Model	0465B2000-01
LED Chip	5730 LED 240PCS
Luminous Efficiency	160lm/w
Color Temperature	6000K
Solar Panel	6V 20W, Polycrystalline
Battery Type	LiFePO4 3.2V 15AH
Charging Time	6-8 hours
Discharging Time	12-15 Hours
IP Rate	IP65
Material	ABS
Product Size	503*365*63mm
Install Height	6-8m
Warranty	3 Years



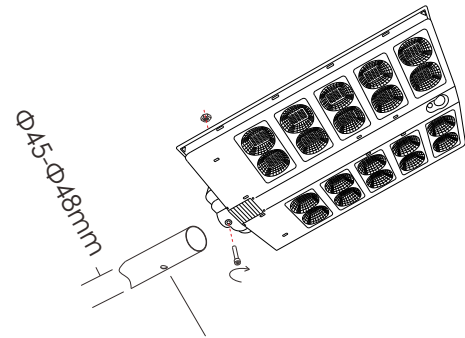
>>> PACKAGING SPECIFICATION

P/N	Power	Packing Size (CM)			PCS/CTN	CBM/CTN	G.W/CTN (KGS)
		L	W	H			
0465B2000-01	400W	56.00	39.50	38.50	5	0.0852	17.80

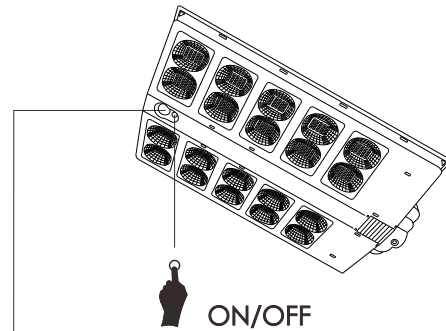


>>> INSTALLATION GUIDE

Insert the lamp arm into the lamp body and tighten the screw.



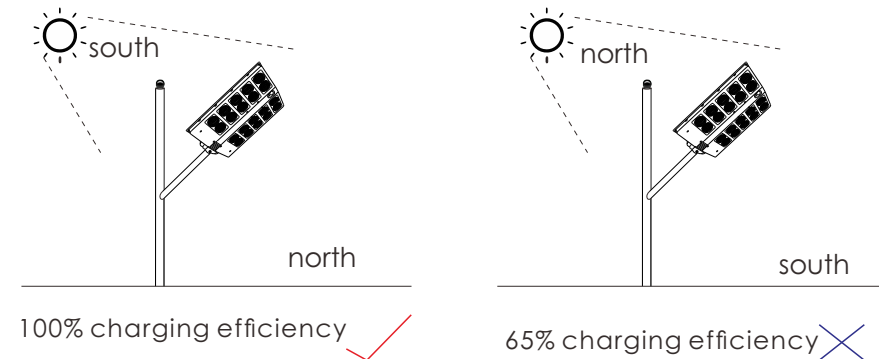
Need to drill a hole with M6 thread through the arm



Motion Sensor

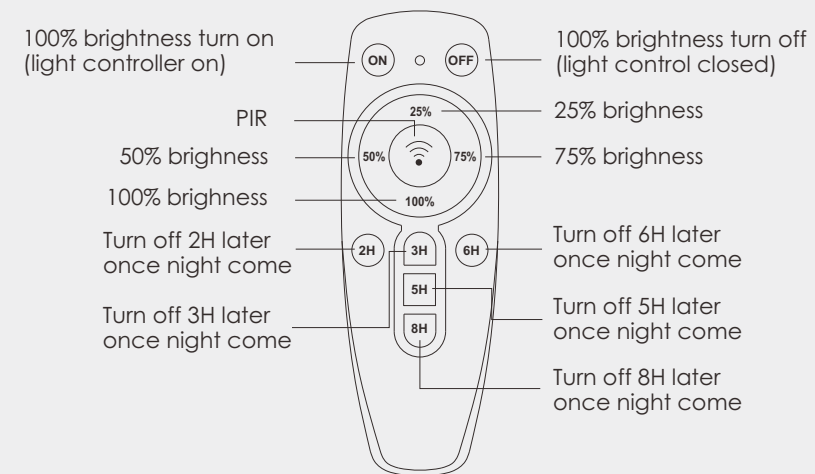
1. The green light will be on when being charged.
2. 100% brightness when detecting movement; tiny brightness when no movement.

Please select the appropriate product according to the installation site's sunlight intensity and required operating time. If you are in the northern hemisphere, face the solar panels towards the south as far as possible when installing the solar light; if you are in the southern hemisphere, face the solar panels towards the north.



(A diagram for how the orientation impacts on power generation efficiency)

Instructions for use of remote control





>>> APPLICATIONS

