



ALL-IN-ONE SOLAR STREET LIGHT

50W/100W/150W/200W

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.





PRODUCT OVERVIEW

► **Motion & Light Sensor**

The solar powered street light charging during the day and light up at night automatically. Constantly light, motion sensor, brightness all can be customized by remote control.

► **Secondary optical design**

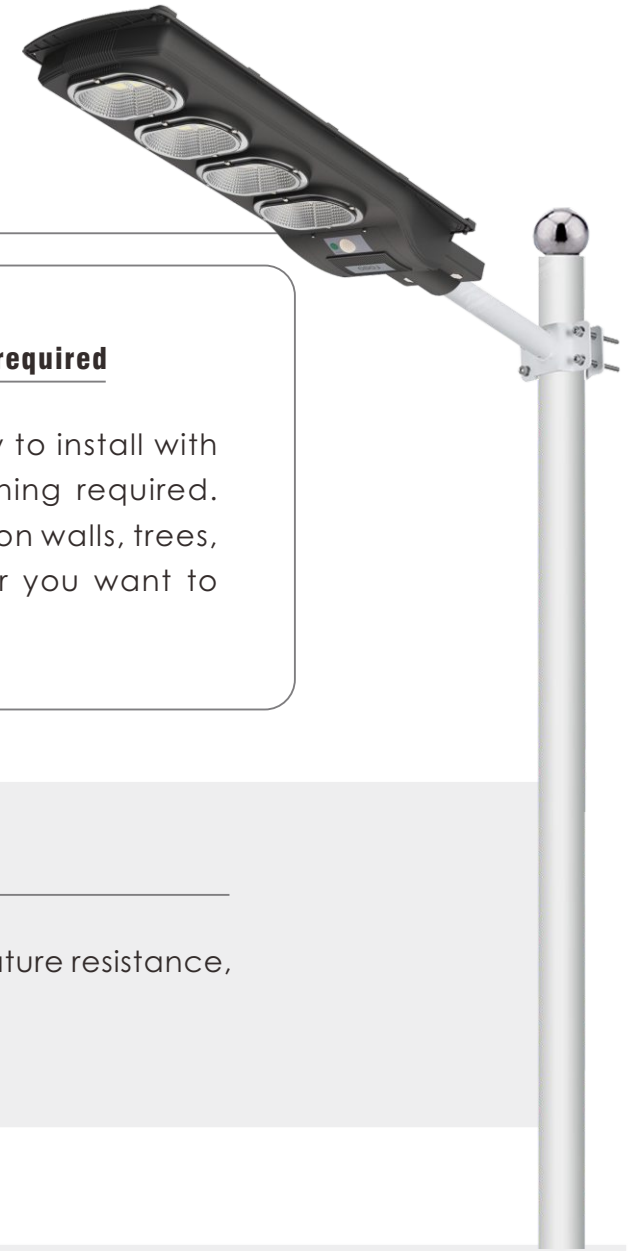
The secondary optical design makes the light emitted by the LED light source illuminate the illuminated area through the secondary focusing, so that the light can be effectively used.

► **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.

► **Easy to install, no wiring required**

The LED street light is easy to install with screws, no wiring or ditching required. You can install solar lights on walls, trees, light poles, etc. wherever you want to install them.





SOLAR STREET LIGHT

50W/100W/150W/200W

PRODUCT DETAILS

Solar Panel

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

ABS Lamp Housing

Solar street lights are made of high quality and durable ABS materials, which can effectively isolate water and work normally even in harsh weather.

Motion Sensing

The light will work automatically at night. When people come, the light will working at 100% power, after people gone, the light will working at 30% power.



LED Chip

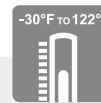
Built-in LED chip, enable solar street lights to emit high brightness with low heat even after long time usage.

High Transmittance PC Lampshade

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.

Battery

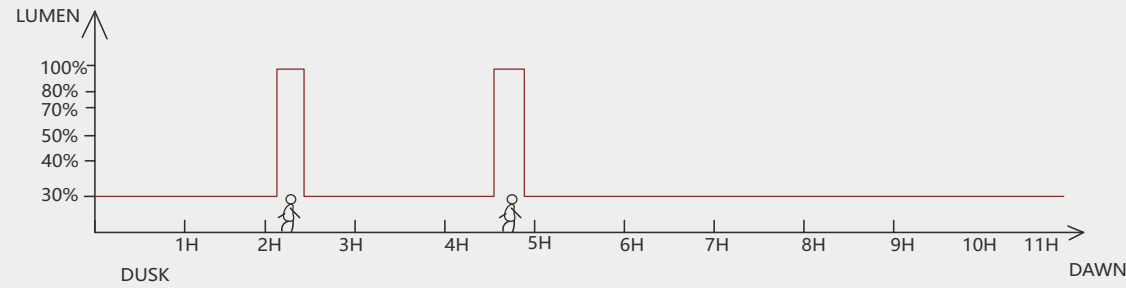
Long battery lifespan and more durable, even use in the -20°C~65°C area



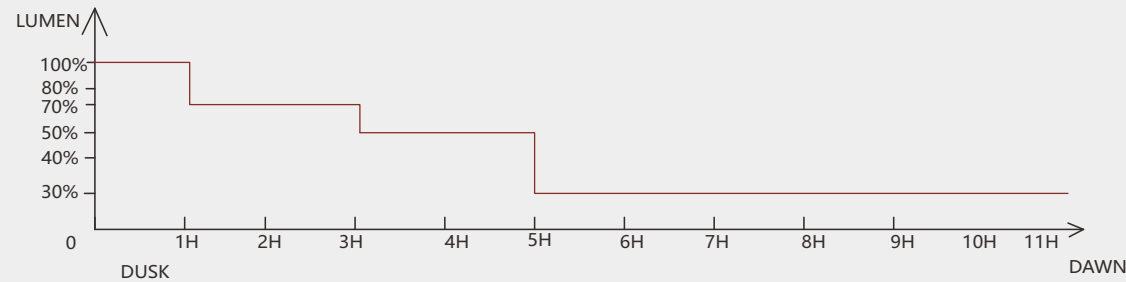


HOW THE LIGHT WORKS

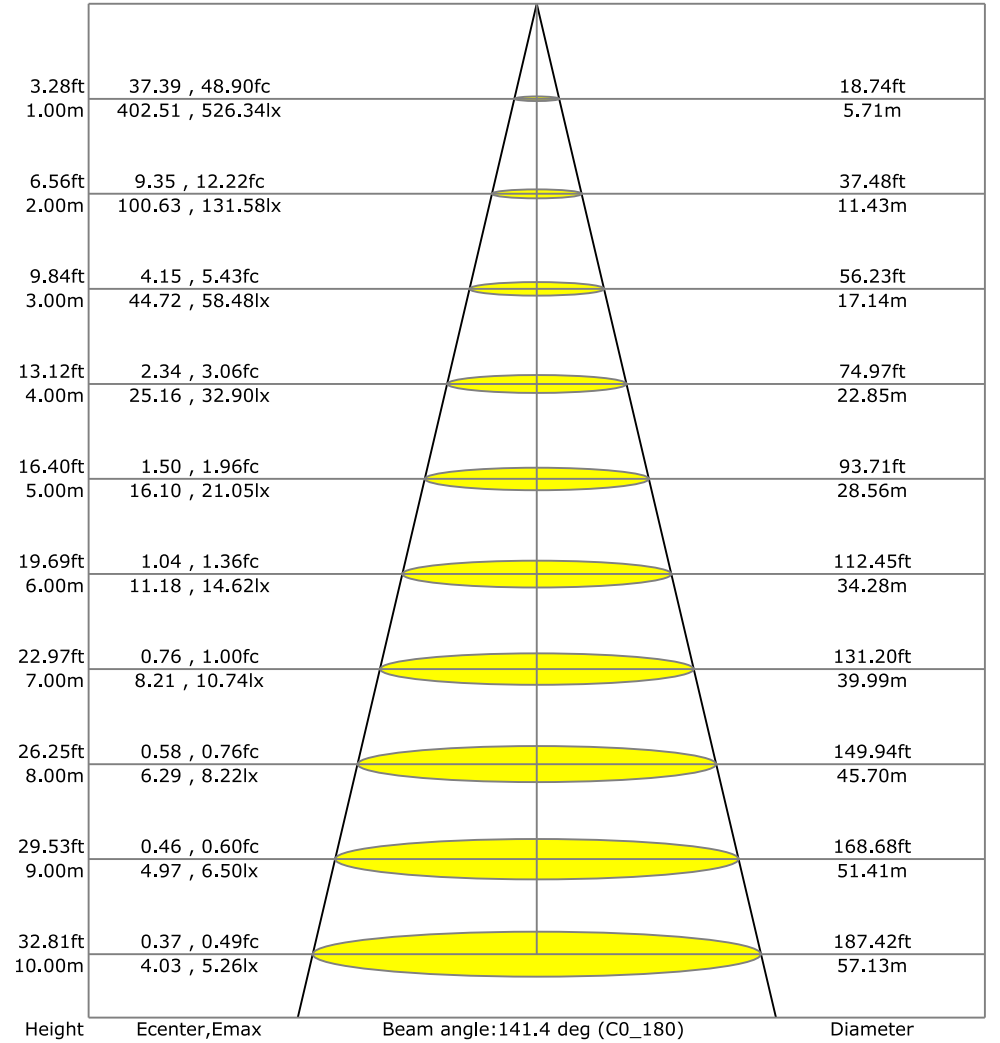
MOTION SENSING MODE



TIME CONTROL MODE

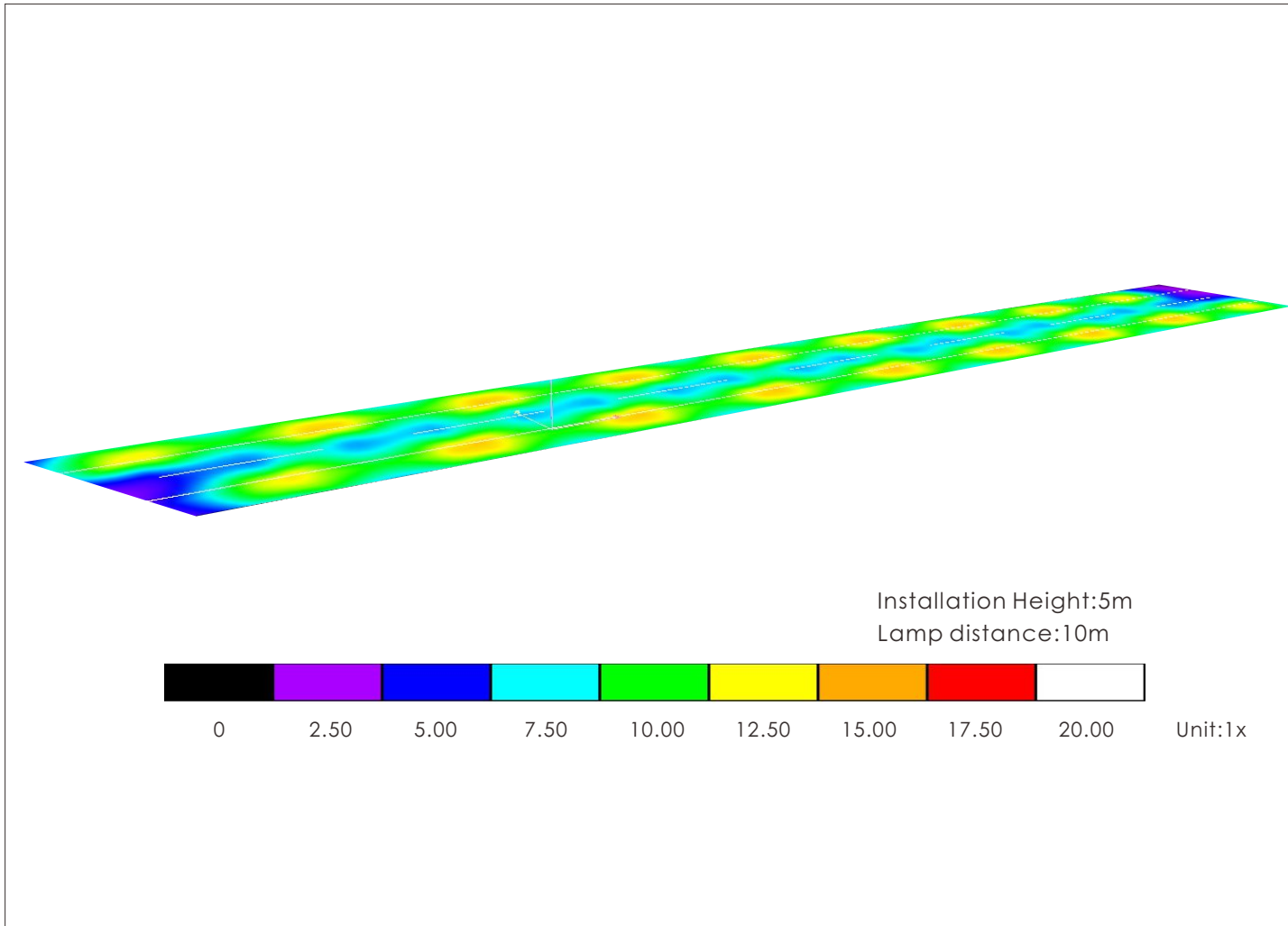


LX-DISTANCE DIAGRAM

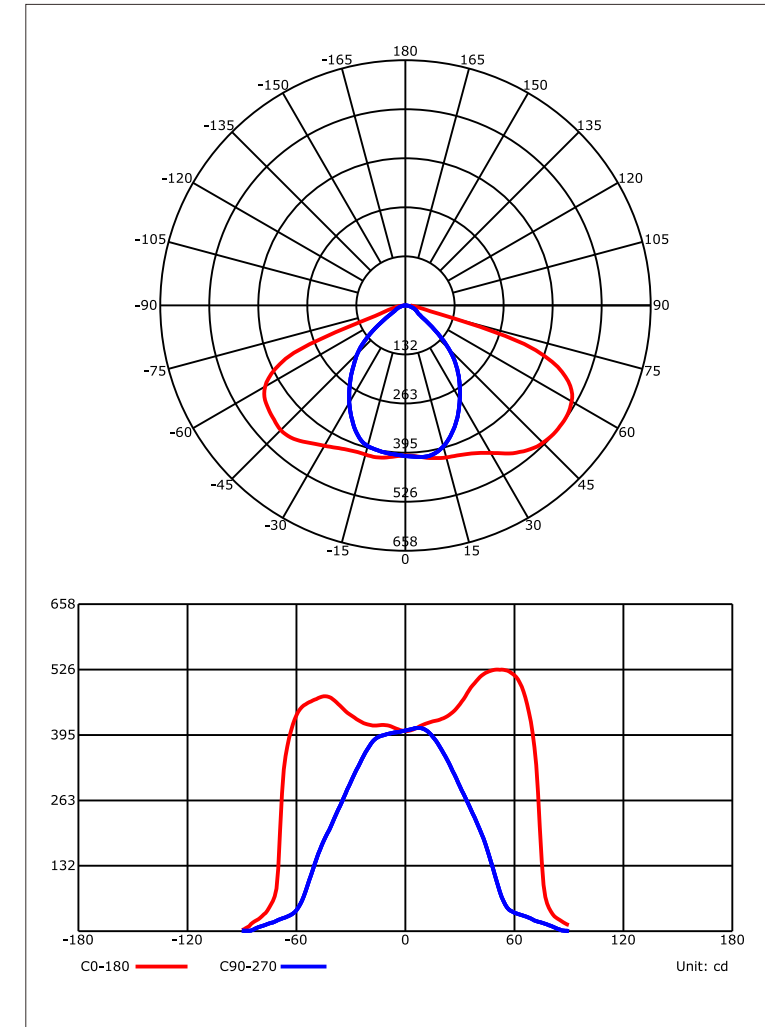




200W DIALUX SIMULATION EFFECT



LUMINOUS INTENSITY DISTRIBUTION CURVE





BATTERY SPECIFICATION

DesignLife	6-8 years			
Nominal Voltage	3.2V			
Nominal Capacity	6AH	6AH	12AH	18AH
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			



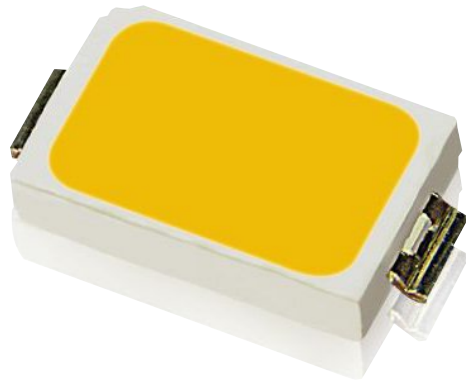
BATTERY GUARANTEE OF QUALITY

- 01 Battery Cells**
High-end battery cells keep every cell's voltage, resistance, capacity, discharging always in sync.
- 02 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.

- 03 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.
- 04 Aging Test Machine**
every battery pack need to thorough charging and discharging test by the aging test machine to keep 100% qualified.



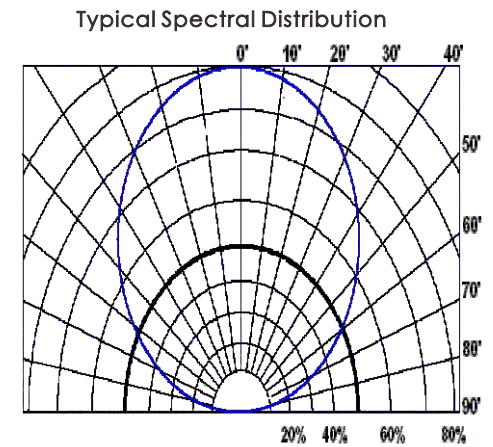
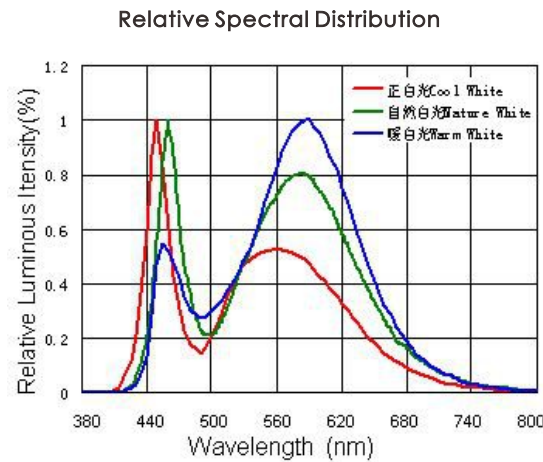
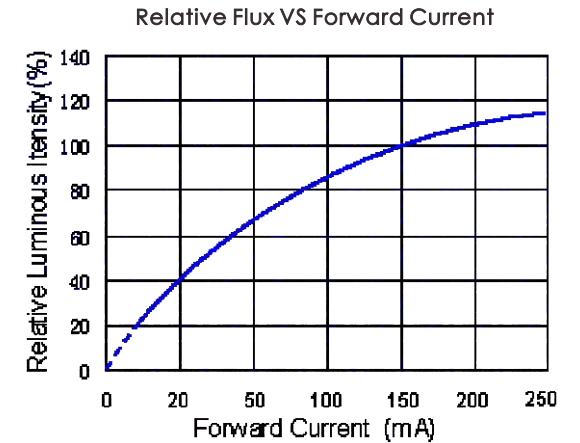
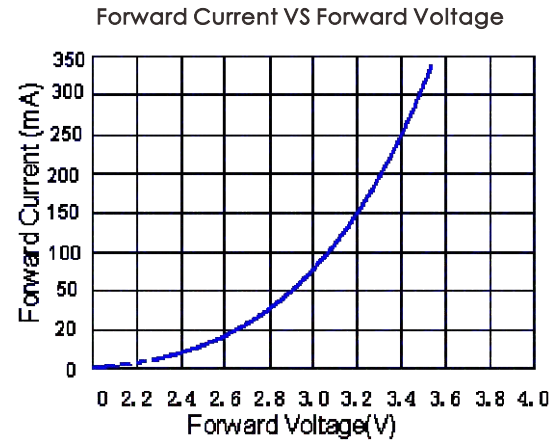
SMD 5730 INTRODUCTION



Features:

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

TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES





SOLAR PANEL SPECIFICATION



Specifications

Peak Power(Pmax)	4.5/7/9/15
Maximum Power Voltage(Vmp)	4.5
Maximum Power Current(Imp)	1/1.56/2/3.33
Open Circuit Voltage(Voc)	8.66/8.69/8.75/8.81
Short Circuit Current(Isc)	1.17/1.73/2.17/3.5
Cells Efficiency(°C)	18.09
Module Efficiency(°C)	10.74
Maximum System Voltage(V)	1000
Maximum Series Fuse Rating(A)	10
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/m²;AM 1.5;25+/-2°C

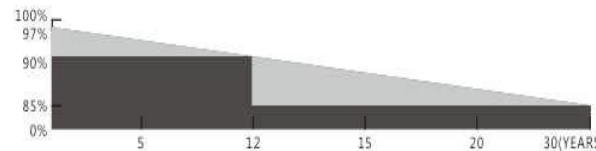
Mechanical characteristics

Front Glass	3.2mm high transmission,low iron,tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP65 Rated
Output cables	2.5mm² cable 90cm+mc4

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



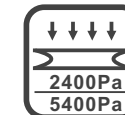
High Efficiency

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



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 TÜV



0 to +5W Positive Tolerance

Detailed information in Electrical Specifications

**PRODUCT SPECIFICATION**

Model	0426A50-01	0426B100-01	0426C150-01	0426D200-01
LED Chip	5730 LED 44PCS 3000-6000K	5730 LED 88PCS 3000-6000K	5730 LED 132PCS 3000-6000K	5730 LED 176PCS 3000-6000K
Solar Panel	4.5V 4.5W, Polycrystalline	4.5V 7W, Polycrystalline	4.5V 9W, Polycrystalline	4.5V 15W, Polycrystalline
Battery Type	LiFePO4 3.2V 6AH	LiFePO4 3.2V 6AH	LiFePO4 3.2V 12AH	LiFePO4 3.2V 18AH
Charging Time	6-8 Hours			
Discharging Time	8-12 hours			
LED	160lm/w			
IP Rating	IP65			
Material	ABS			
Product Size	292*195*64mm	384*190*64mm	478*211*71mm	624*225*71mm
Install Height	3-5m	4-6m	5-7m	6-8m
Warranty	2 Years			
Product Picture	 50W	 100W	 150W	 200W



PRODUCT SIZE



0426A50-01 | 50W



0426B100-01 | 100W



0426C150-01 | 150W



0426D200-01 | 200W

WARNING

- ▶ Please avoid looking directly at the light.
- ▶ Dismantling process must be carried out in a safe place.
- ▶ Do not short-circuit, disassemble ; do not put in the water and near the fire.
- ▶ Without the guidance of experts, users are forbidden to repair or dismantle the lights; The supplier shall not be responsible for any consequences owing to incorrect operation or wrong maintained by users.

