



SOLAR LED STREET LIGHT WITH PANEL SWEEPER

40W/60W/80W/100W/120W

This integrated solar street light, the solar panel comes with panel cleaning function, which is more convenient and more humane. The street lamp is ultra-bright and wide-angle, which can easily illuminate areas such as 400 square feet. And built-in large-capacity lithium battery, additional battery can increase energy by 66%, so that the life of street lights is longer. It can be fully charged under the sun for 6 hours and provides you with up to 3 days of night lighting to keep your surroundings bright.



www.misklight.com

 **MiskTechnology**
Global Access-Endless Possibilities

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PRODUCT OVERVIEW



01

PANEL CLEANING

Small cleaner solar charging, no need for additional electricity, environmental protection and convenience, sliding up and down, can quickly clean the dust on the solar panel of the lamp body. Dust blocks the Sunlight & due to less sunlight to the solar panel, the time of Power storage is effected and reduced.

02

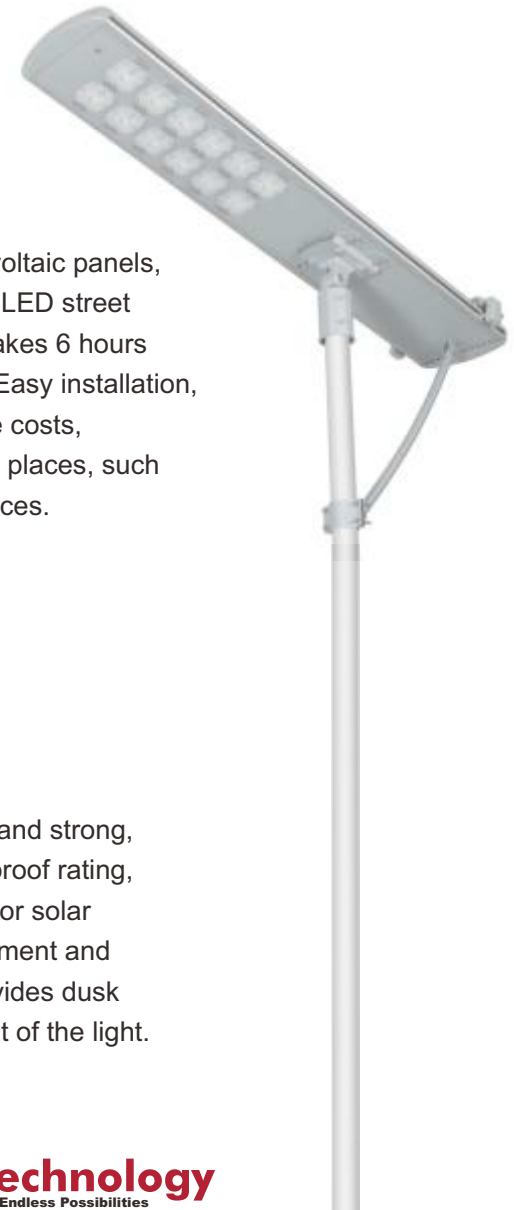
HIGH EFFICIENCY SOLAR PANELS

Outdoor solar street lights use monocrystalline silicon photovoltaic panels, and the photoelectric conversion rate is very high. This solar LED street light has a built-in large-capacity lithium battery, which only takes 6 hours to fully charge, and can work continuously for about 3 days. Easy installation, no additional hard wires, saving installation and maintenance costs, electricity bill is also 0. It can meet the lighting needs of large places, such as parking lots, stadiums, gardens, roads and other large places.

03

RUGGED CONSTRUCTION AND LIGHT CONTROL

Brand new shell design, outdoor solar pole light is both safe and strong, making LED street lights last more than 6 years. IP65 waterproof rating, rainproof and lightning protection performance, so that outdoor solar light source can withstand a variety of harsh outdoor environment and weather conditions. Solar street light built-in light control provides dusk automatic adjustment of the light, dawn automatic adjustment of the light. (charging mode)





PRODUCT DETAILS

PIR 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.

Aluminum Alloy

Using high-quality and durable Aluminum alloy material, it can effectively isolate moisture, and has excellent heat dissipation effect and corrosion resistance.

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.

LED Chip

Moisture-proof and waterproof, high quality LED chip has a wide lighting range.

Solar Panel

High quality monocrystalline silicon material, high charging efficiency, long life-span.

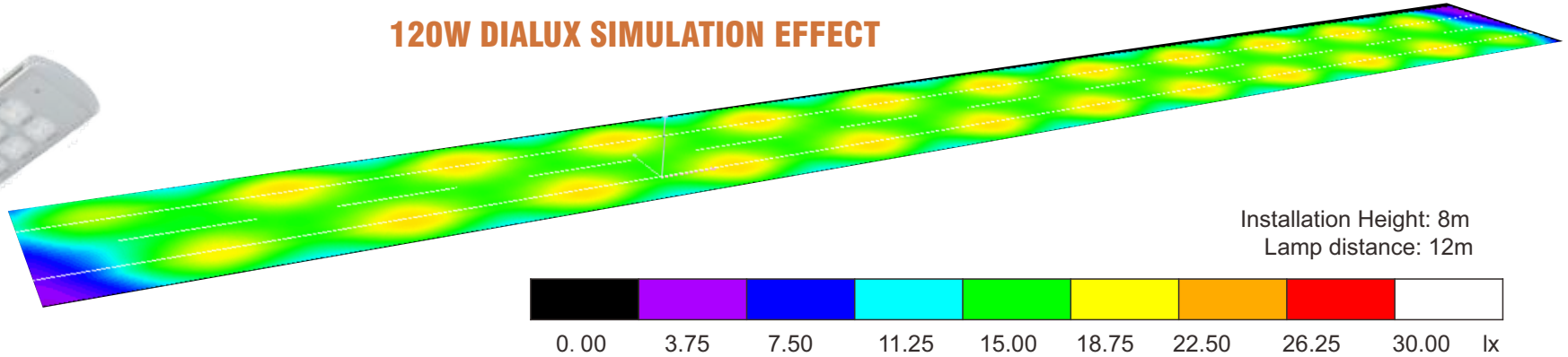
Battery

Long battery life-span and more durable. Even use in the -20°C~65°C area.

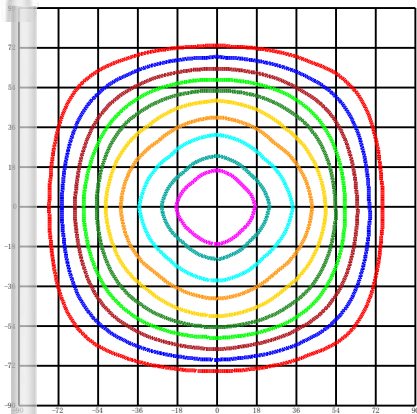




120W DIALUX SIMULATION EFFECT

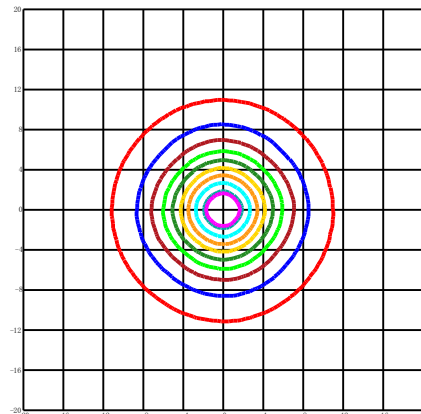


120W ISOCANDELA DIAGRAM



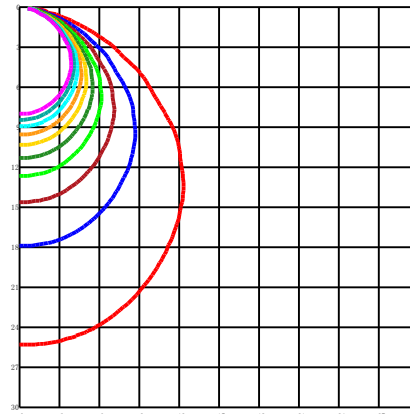
Unit of intensity: lx x (100%) : 1042,108 cd

990,003 (95% lx x)	521,054 (50% lx x)
937,898 (90% lx x)	416,843 (40% lx x)
833,687 (80% lx x)	312,633 (30% lx x)
729,476 (70% lx x)	208,422 (20% lx x)
625,266 (60% lx x)	104,211 (10% lx x)



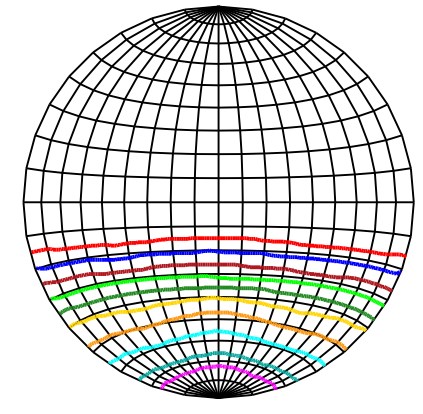
Unit of film: lx m x lx Height of plane: 8.0 (m) / 26.25 (ft)

14,97 (1% lx m x)	8,136 (1% lx m x)
14,645 (1% lx m x)	6,599 (1% lx m x)
13,018 (1% lx m x)	4,882 (0% lx m x)
11,39 (1% lx m x)	3,254 (0% lx m x)
9,763 (1% lx m x)	1,627 (0% lx m x)



Unit of film: lx m x lx

16,248	8,124
14,623	6,499
12,998	4,874
11,373	3,25
9,749	1,625

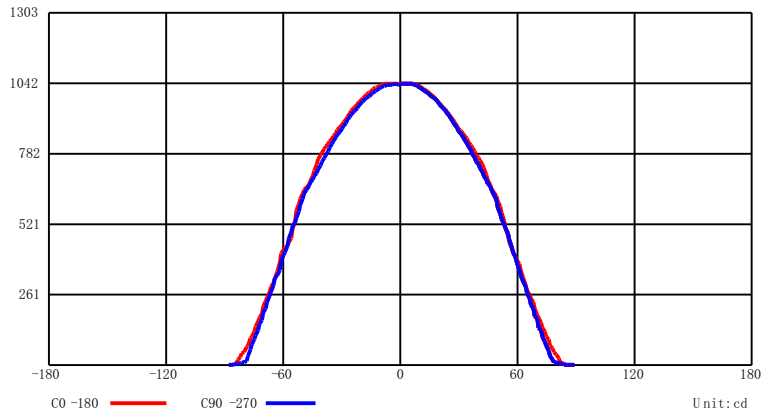
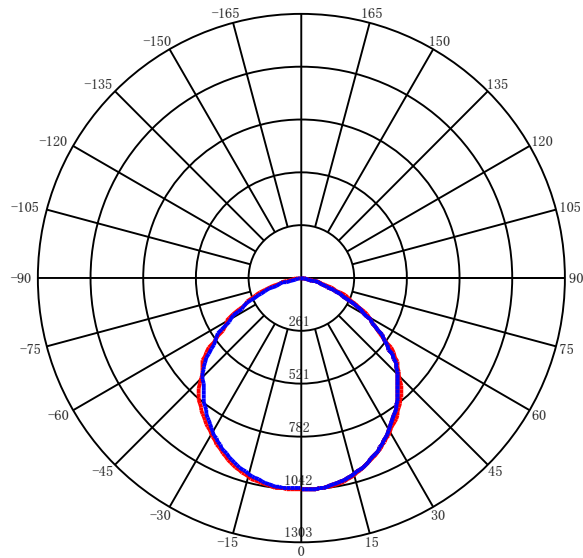


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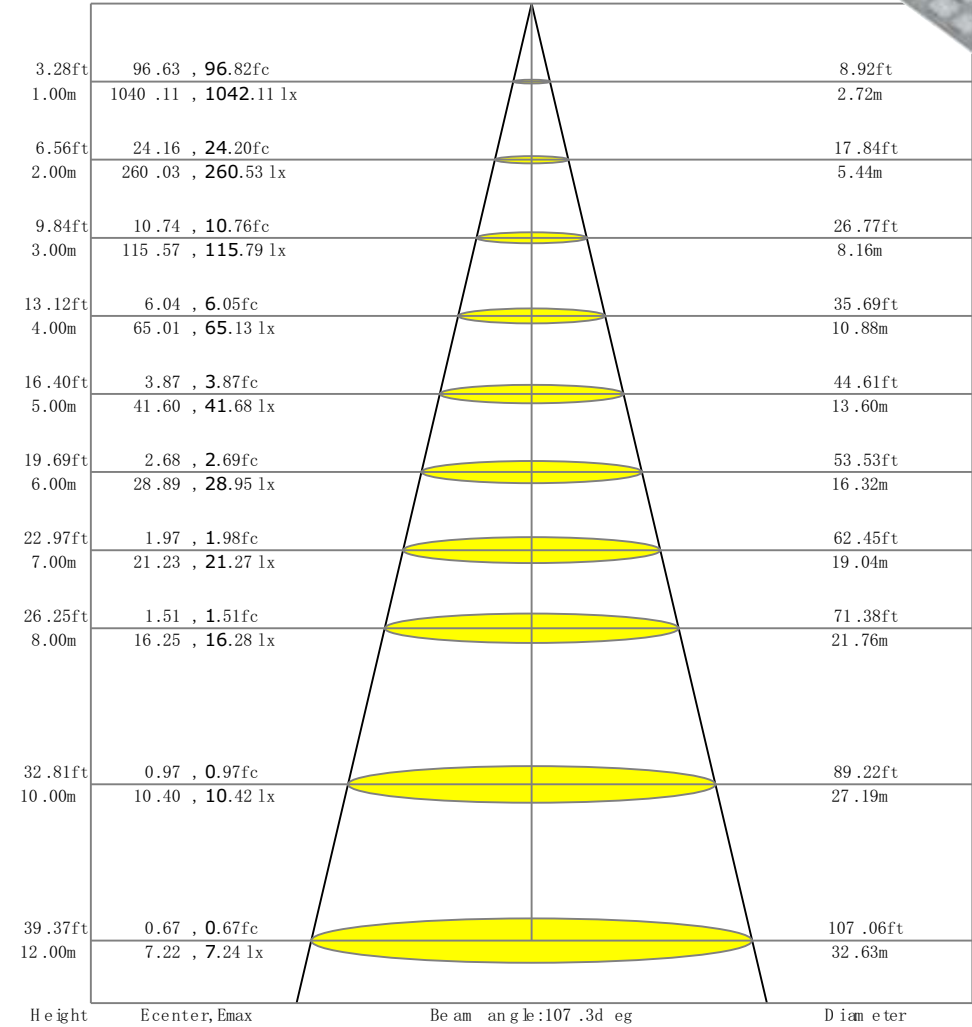
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120W PHOTOMETRIC RESULTS



120W LX-DISTANCE DIAGRAM





SOLAR PANEL SPECIFICATION



Specifications

Peak Power(Pmax)	55/75/90/120/130
Maximum Power Voltage(Vmp)	18/18/18/18/18
Maximum Power Current(Imp)	3.05/4.16/5/6.66/7.22
Open Circuit Voltage(Voc)	22.1/22.1/22.1/22.1/22.1
Short Circuit Current(Isc)	4.15/5.26/6.1/7.76/8.32
Cells Efficiency(%)	18.09
Module Efficiency(%)	13.93
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)	-0.290%
Isc Temperature Coefficients(A/ °C)	+0.048%
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

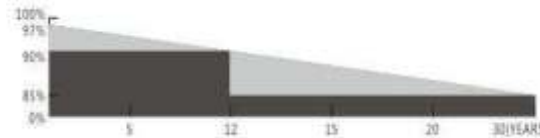
Mechanical characteristics

Dimensions	
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



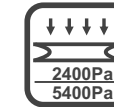
5 Busbar Cell:
5 Busbar Solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance making it perfect for rooftop installation and application



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



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



BATTERY SPECIFICATION



DesignLife	6-8 years				
Nominal Voltage	12.8V				
Nominal Capacity	24AH	30AH	42AH	48AH	54AH
Nominal Voltage (Sweepe)	12V				
Nominal Capacity (Sweepe)	2.5AH				
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

Battery Cells

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

01

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.

02

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.

03

Aging Test Machine

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

04

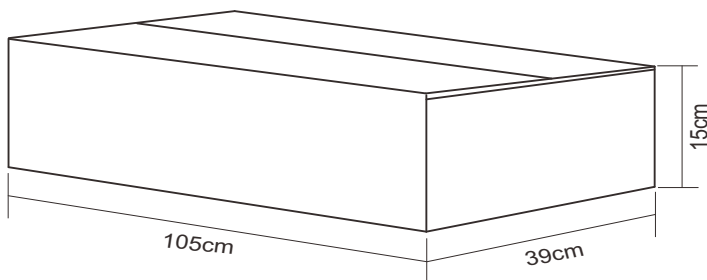


PRODUCT SPECIFICATION

Model	0424A40-01
LED Chip	COB LED 10W*4PCS
Solar Panel	18V 55W, Monocrystalline
Battery Type	LiFePO4 12.8V 24AH
Battery Type (Sweeper)	12V 2.5AH
Charging time	6 hours
Discharging time	3 Rainy Days
Control Way	Light Control+PIR Sensor+ Time Control
Lumens	4000LM
Material	Aluminium Alloy
Product Size	1000*375*50mm
Install Height	4-5m
Warranty	3 years



PACKAGING SPECIFICATION



P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN (KGS)
		L	W	H			
0424A40-01	40W	105.00	39.00	15.00	1	0.0614	13.5

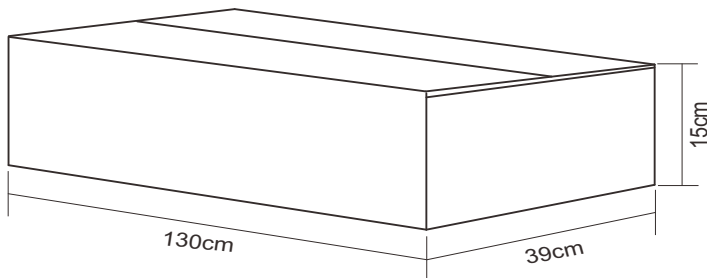


PRODUCT SPECIFICATION

Model	0424B60-01
LED Chip	COB LED 10W*6PCS
Solar Panel	18V 75W, Monocrystalline
Battery Type	LiFePO4 12.8V 30AH
Battery Type (Sweeper)	12V 2.5AH
Charging time	6 hours
Discharging time	3 Rainy Days
Control Way	Light Control+PIR Sensor+ Time Control
Lumens	6000LM
Material	Aluminium Alloy
Product Size	1240*375*50mm
Install Height	5-6m
Warranty	3 years



PACKAGING SPECIFICATION



P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN (KGS)
		L	W	H			
0424B60-01	60W	130.00	39.00	15.00	1	0.0761	16.5

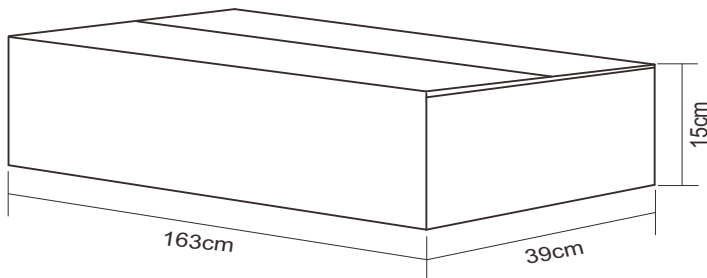


PRODUCT SPECIFICATION

Model	0424C80-01
LED Chip	COB LED 10W*8PCS
Solar Panel	18V 90W, Monocrystalline
Battery Type	LiFePO4 12.8V 42AH
Battery Type (Sweeper)	12V 2.5AH
Charging time	6 hours
Discharging time	3 Rainy Days
Control Way	Light Control+PIR Sensor+ Time Control
Lumens	8000LM
Material	Aluminium Alloy
Product Size	1550*375*50mm
Install Height	6-7m
Warranty	3 years



PACKAGING SPECIFICATION



P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN (KGS)
		L	W	H			
0424C80-01	80W	163.00	39.00	15.00	1	0.0954	18.5

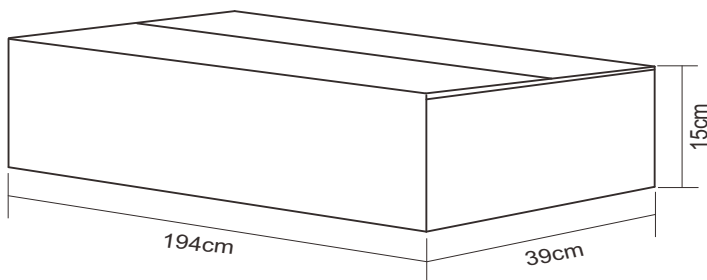


PRODUCT SPECIFICATION

Model	0424D100-01
LED Chip	COB LED 10W*10PCS
Solar Panel	18V 120W, Monocrystalline
Battery Type	LiFePO4 12.8V 48AH
Battery Type (Sweeper)	12V 2.5AH
Charging time	6 hours
Discharging time	3 Rainy Days
Control Way	Light Control+PIR Sensor+ Time Control
Lumens	10000LM
Material	Aluminium Alloy
Product Size	1870*375*50mm
Install Height	7-8m
Warranty	3 years



PACKAGING SPECIFICATION



P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN (KGS)
		L	W	H			
0424D100-01	100W	194.00	39.00	15.00	1	0.1135	25.8

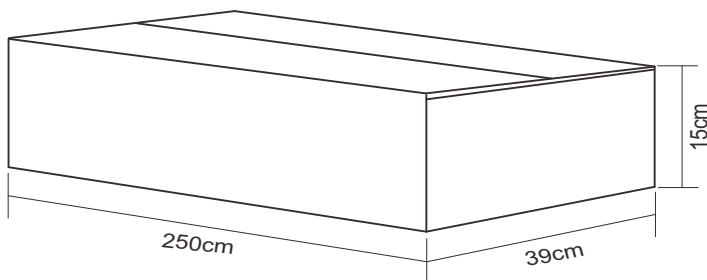


PRODUCT SPECIFICATION

Model	0424E120-01
LED Chip	COB LED 10W*12PCS
Solar Panel	18V 130W, Monocrystalline
Battery Type	LiFePO4 12.8V 54AH
Battery Type (Sweeper)	12V 2.5AH
Charging time	6 hours
Discharging time	3 Rainy Days
Control Way	Light Control+PIR Sensor+ Time Control
Lumens	12000LM
Material	Aluminium Alloy
Product Size	2200*375*50mm
Install Height	8-10m
Warranty	3 years



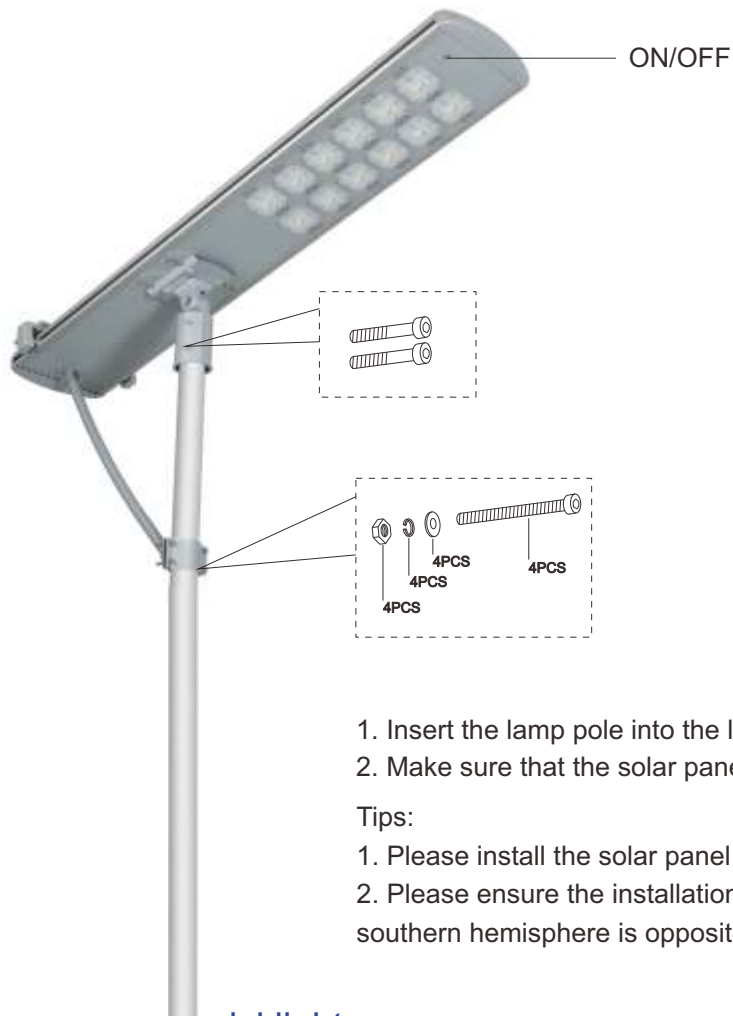
PACKAGING SPECIFICATION



P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN (KGS)
		L	W	H			
0424E120-01	120W	250.00	39.00	15.00	1	0.1463	28.3



INSTALLATION GUIDE



1. Insert the lamp pole into the lamp bracket and tighten the screws.
2. Make sure that the solar panel is installed facing the sun and there are no obstacles blocking it.

Tips:

1. Please install the solar panel in the sun direction to avoid affecting the power generation efficiency.
2. Please ensure the installation is stable. (the diagram is an example for the people in northern hemisphere but if you are in the southern hemisphere is opposite)