ALLTOP®
ELECTRONICS

ALL-IN-ONE
Solar Street Light

100W/150W/200W/250W/300W/350W

LED solar street lights are composed of photovoltaic power generation system, energy storage system, and light control system. The 22%+ 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 SMD3030 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

LED Chip

Enlarged LED module design, high brightness 3030 Bidgelux LED chip, brightness increased by 30%.

Solar Panel

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

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.

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.

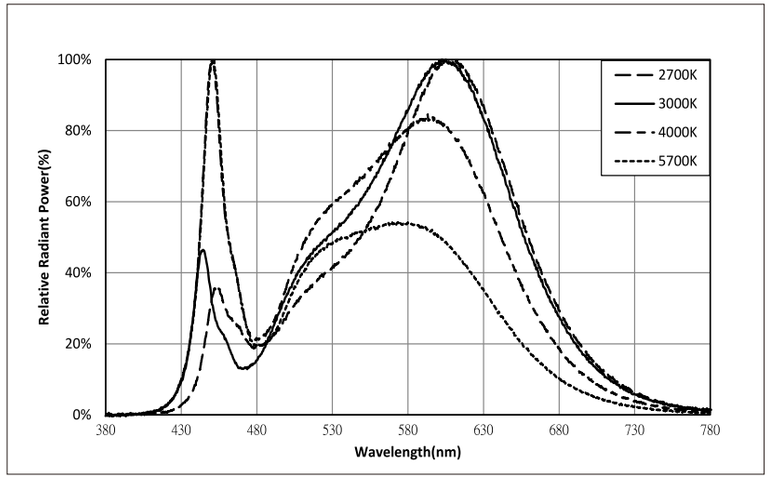
Aluminum Alloy Lamp Housing

The lamp housing is made of aluminum alloy, anodizing treatment on surface, and no fade. which is strong and stable, waterproof and rust-proof.

SMD 3030 INTRODUCTION

The Bridgelux SMD 3030 offers exceptional performance in a compact LED package. This high power LED is hot-color targeted which ensures that the LEDs fall within their specified color bin at the typical application conditions of 85°C. With its broad lumen coverage and wide range of CCT and CRI options, the SMD 3030 provides unparalleled design-in flexibility for indoor and outdoor lighting applications. Its high flux capability reduces the number of LEDs and enables industry leading system level lumen per dollar. The SMD 3030 is ideal as a drop in replacement for emitters with an industry standard 3.0mm x 3.0mm footprint.

Typical Color Spectrum



Notes :Color spectra measured at nominal current for T_{sp}=25°C

Features

- Industry-standard 3030 footprint
- Excellent color maintenance
- 9 bin color control enables tight color control
- Superior luminous flux at maximum current for reduced LED count
- Hot-color targeting ensures that color is within the ANSI bin at the typical application conditions of 85°C
- Enables 3- and 5-step MacAdam ellipse custom binning kits
- RoHS compliant and Lead free
- Multiple CCT and CRI configurations for a wide range of lighting applications

Benefits

- Lower operating and manufacturing cost
- Ease of design and rapid go-to-market
- Uniform consistent white light
- Reliable and constant white point
- Environmentally friendly, complies with standards
- Design flexibility

SMD 3030 INTRODUCTION

BATTERY SPECIFICATION

DesignLife	6-8 years					
Nominal Voltage	12.8V					
Nominal Capacity	36AH	54AH	57AH	66AH	72AH	84AH
Self-Discharge						
Operation Temperature Range						
Discharge	-20~60℃					
Charge	-10~60℃					
Storage	-20~60℃					
Max.Discharge Current 77°F(25℃)	75A					
Short Circuit Current	200A					

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.

SOLAR PANEL SPECIFICATION

Specifications

Peak Power(Pmax)	81/116/120/129/140/162
Maximum Power Voltage(Vmp)	18/18/18/18/18/18
Maximum Power Current(Imp)	4.5/6.44/6.67/7.17/7.78/9
Open Circuit Voltage(Voc)	22.15
Short Circuit Current(Isc)	4.93/6.87/7.1/7.6/8.21/9.43
Power Tolerance	0~+3%
Pmax Temperature Coefficients(W/℃)	-0.400%
Voc Temperature Coefficients(V/℃)	-0.300%
Isc Temperature Coefficients(A/℃)	+0.060%
NOCT Nominal Operating Cell Temperature(℃)	45±2
Operating and Storage Temperature(℃)	-40~+85
Standard Test Condition(STC)	1000W/m²;AM 1.5;25+/-2℃

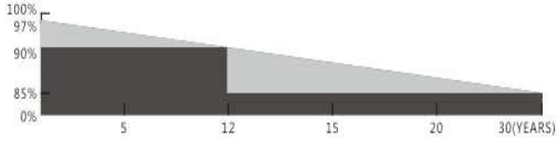
Mechanical characterisrtics

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 materail and workmanship

30 YEARS — Linear Power output warranty

Key Features

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

CONVERSION

High Efficiency
High Module conversion efficiency, through innovative manufactureing technology

LOW LIGHT

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

2400Pa
5400Pa

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

NH
RESISTANT

Durability against extreme enviromental conditions
High salt mist and ammonia resistance certified by TUV

0 to +5W

0-+5W Positive Tolerance
Detailed information in Electrical Specifications

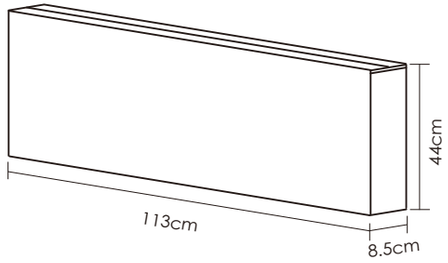
PRODUCT SPECIFICATION

0477A100-01 100W

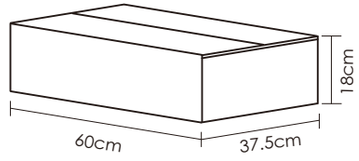
Model	0477A100-01
LED Lamp	3030LED 108PCS 6000K
Solar Panel	18V 81W, Mono-Crystalline
Battery Type	LiFePO4 12.8V 36AH
Charging Time	6-8 hours
Discharging Time	15-18 hours
Control Way	Microwave motion sensor+Light Control+Remote Control
LED	160 lm/w
IP Rate	IP65
Material	Die-casting Aluminum
Product Size	1079*386*153mm
Install Height	5-7m
Warranty	3 Years

PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	
		L	W	H			
0477A100-01	100W	113.00	8.50	44.00	1	0.0423	Lamp body
		60.00	37.50	18.00	1	0.0405	Battery



Lamp body



Battery

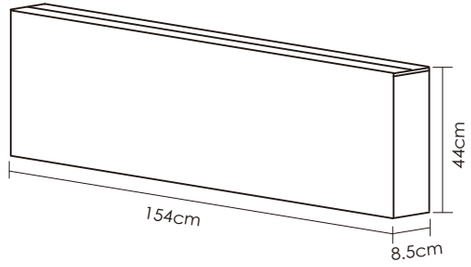
PRODUCT SPECIFICATION

Model	0477B150-01
LED Lamp	3030LED 144PCS 6000K
Solar Panel	18V 116W, Mono-Crystalline
Battery Type	LiFePO4 12.8V 54AH
Charging Time	6-8 hours
Discharging Time	15-18 hours
Control Way	Microwave motion sensor+Light Control+Remote Control
LED	160 lm/w
IP Rate	IP65
Material	Die-casting Aluminum
Product Size	1489*386*153mm
Install Height	6-8m
Warranty	3 Years

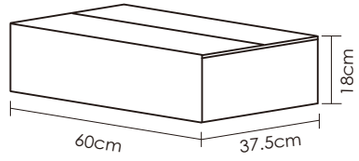
0477B150-01 150W

PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	
		L	W	H			
0477B150-01	150W	154.00	8.50	44.00	1	0.0576	Lamp body
		60.00	37.50	18.00	1	0.0405	Battery



Lamp body



Battery

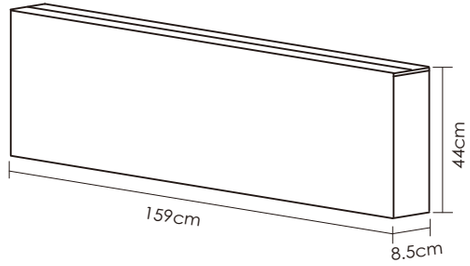
PRODUCT SPECIFICATION

Model	0477C200-01
LED Lamp	3030LED 180PCS 6000K
Solar Panel	18V 120W, Mono-Crystalline
Battery Type	LiFePO4 12.8V 57AH
Charging Time	6-8 hours
Discharging Time	15-18 hours
Control Way	Microwave motion sensor+Light Control+Remote Control
LED	160 lm/w
IP Rate	IP65
Material	Die-casting Aluminum
Product Size	1539*386*153mm
Install Height	7-9m
Warranty	3 Years

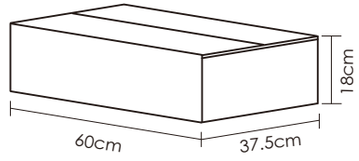
0477C200-01 200W

PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	
		L	W	H			
0477C200-01	200W	159.00	8.50	44.00	1	0.0595	Lamp body
		60.00	37.50	18.00	1	0.0405	Battery



Lamp body



Battery

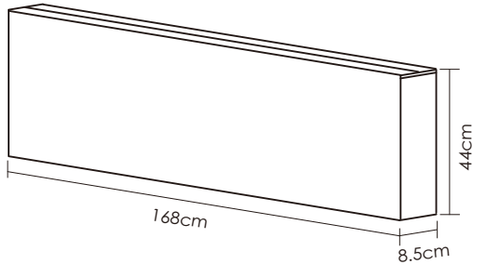
PRODUCT SPECIFICATION

Model	0477D250-01
LED Lamp	3030LED 216PCS 6000K
Solar Panel	18V 129W, Mono-Crystalline
Battery Type	LiFePO4 12.8V 66AH
Charging Time	6-8 hours
Discharging Time	15-18 hours
Control Way	Microwave motion sensor+Light Control+Remote Control
LED	160 lm/w
IP Rate	IP65
Material	Die-casting Aluminum
Product Size	1629*386*153mm
Install Height	8-10m
Warranty	3 Years

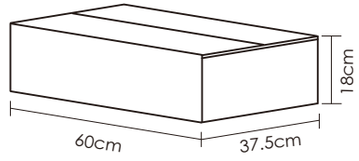
0477D250-01 250W

PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	
		L	W	H			
0477D250-01	250W	168.00	8.50	44.00	1	0.0628	Lamp body
		60.00	37.50	18.00	1	0.0405	Battery



Lamp body



Battery

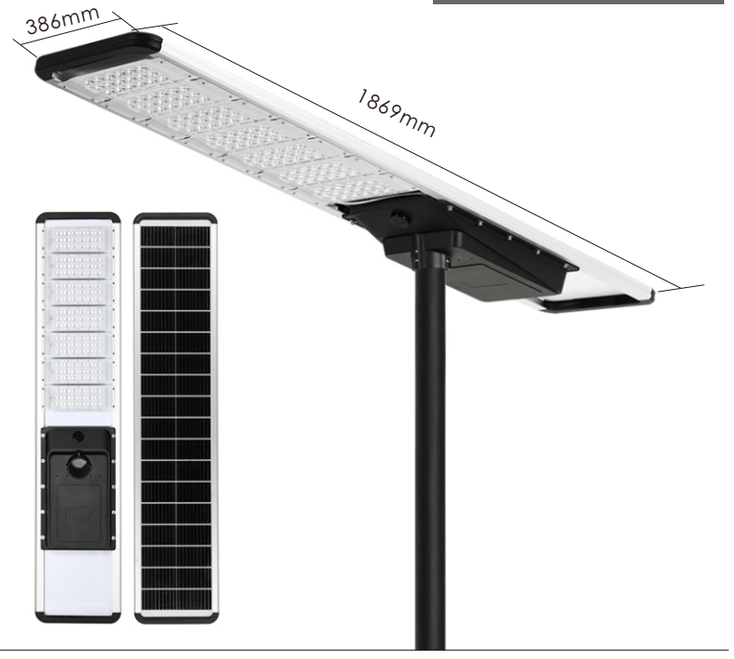
SOLAR STREET LIGHT

100W/150W/200W/250W/300W/350W

PRODUCT SPECIFICATION

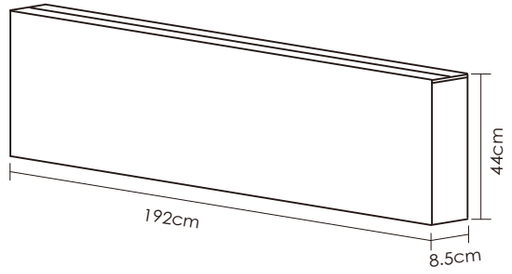
Model	0477E300-01
LED Lamp	3030LED 252PCS 6000K
Solar Panel	18V 140W, Mono-Crystalline
Battery Type	LiFePO4 12.8V 72AH
Charging Time	6-8 hours
Discharging Time	15-18 hours
Control Way	Microwave motion sensor+Light Control+Remote Control
LED	160 lm/w
IP Rate	IP65
Material	Die-casting Aluminum
Product Size	1869*386*153mm
Install Height	9-11m
Warranty	3 Years

0477E300-01 300W

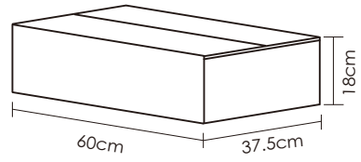


PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	
		L	W	H			
0477E300-01	300W	192.00	8.50	44.00	1	0.0718	Lamp body
		60.00	37.50	18.00	1	0.0405	Battery



Lamp body



Battery

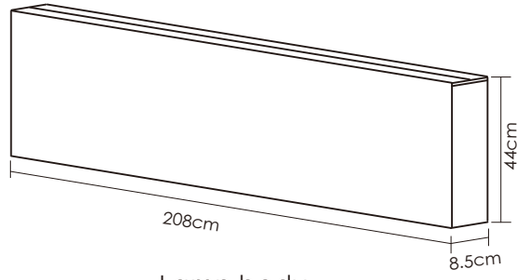
PRODUCT SPECIFICATION

Model	0477F350-01
LED Lamp	3030LED 288PCS 6000K
Solar Panel	18V 162W, Mono-Crystalline
Battery Type	LiFePO4 12.8V 84AH
Charging Time	6-8 hours
Discharging Time	15-18 hours
Control Way	Microwave motion sensor+Light Control+Remote Control
LED	160 lm/w
IP Rate	IP65
Material	Die-casting Aluminum
Product Size	2029*386*153mm
Install Height	10-12m
Warranty	3 Years

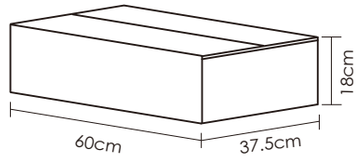
0477F350-01 350W

PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	
		L	W	H			
0477F350-01	350W	208.00	8.50	44.00	1	0.0778	Lamp body
		60.00	37.50	18.00	1	0.0405	Battery



Lamp body



Battery

APPLICATIONS