

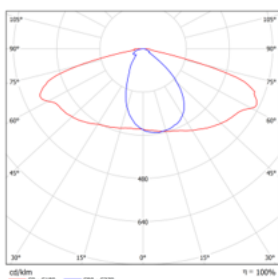
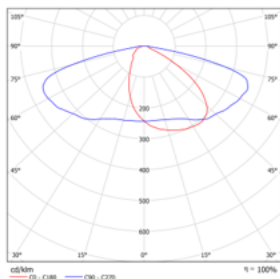
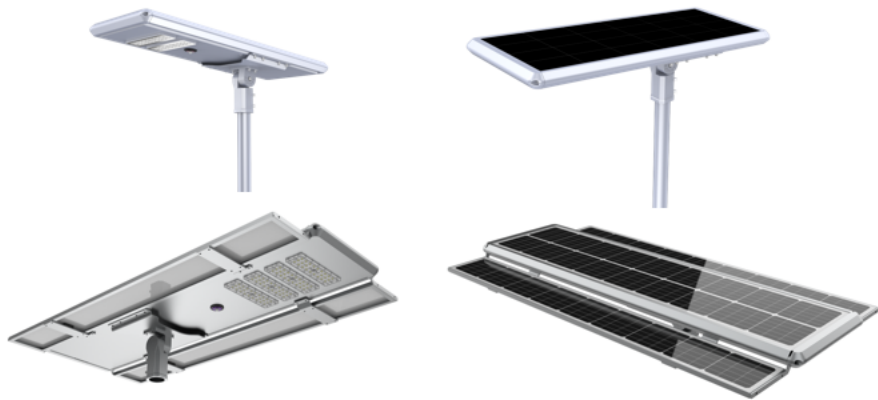
# Solar street light

EXC-CR-Z01 series



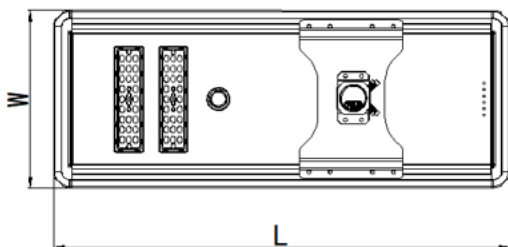
## Introduction

- LED lens is made of high-quality imported optical materials, with accurate light distribution, high efficiency and strong weather resistance;
- The working mode can be customized, with segmented dimming design, and the induction time & power can be set.
- Adopting MPPT controller, maximum power point tracking technology, tracking efficiency >99%, high-precision digital boost constant current control algorithm, constant current output, adjustable load current.
- Using high lumen Leds 5050 with >220lm/W and the whole lamp is >185lm/W.
- A-level LiFePO4 battery, lifespan  $\geq 2000$  times.
- High conversion efficiency mono solar panel, lifespan  $\geq 25$  years.
- ADC12 aluminum alloy housing, IP65 waterproof, can be used in a variety of harsh environment.



## Size

Power (W)	Size (mm)			Maximum windward area(m <sup>2</sup> )	Weight (kg)
	L	W	H		
20	843	420	284	0.354	14.18kg
40	1083	420	284	0.455	16.42kg
60	1553	420	284	0.652	20.75kg
80	1709	420	300	0.718	22.8kg
120	1553	783	300	1.216	33kg



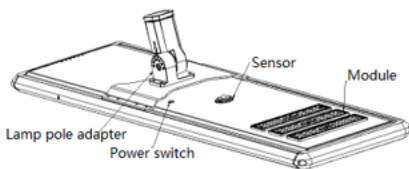
## Performance

Model No.	EXC-CR-Z01-020	EXC-CR-Z01-040	EXC-CR-Z01-060	EXC-CR-Z01-080	EXC-CR-Z01-120
Power	20W	40W	60W	80W	120W
Lumen	3800lm	6000lm	1000lm	12000lm	20000lm
Solar Panel	18V/40W	18V/60W	18V/90W	18V/100W	36V/180W
Lithium Battery	LiFePO4 12.8V/12Ah	LiFePO4 12.8V/18Ah	LiFePO4 12.8V/30Ah	LiFePO4 25.6V/18Ah	LiFePO425.6V/30Ah
LEDs	5050/24PCS	5050/48PCS	5050/72PCS	5050/96PCS	5050/144PCS
CCT	3000-6500K				
Beam Angle	78°148				
Working Mode	0.5H 100%, 2.5H 80% with person / 60% without person, 9H 50%with person 20% without person				0.5H-100%, 2.5H-70%, 9H-20%
Rainy days	3~5 days				
Full power time	6H				
Charge time	4~8H				
Material	aluminium alloy				
Working Temperature	-20°C ~ +60°C				
IP Grade	IP65				
Pole Diameter	60MM			80MM	
Mounting Height	3~4M	5~6M	6~7M	7~8M	11~12M
Product Size	843*420*284mm	1083*420*284mm	1553*420*284mm	1709*420*300mm	1553*783*300mm
Net Weight	14.18kg	16.42kg	20.75kg	22.8kg	33kg
Packing Size	981*508*145mm	1222*508*145mm	1691*508*145mm	1867*508*145mm	1711*508*162mm
Gross Weight	16.71kg	18.02kg	23.29kg	25.72kg	35kg
Maximum windward area	0.354	0.455	0.652	0.718	1.216
Packing Carton	1 pcs/carton				

## Installation

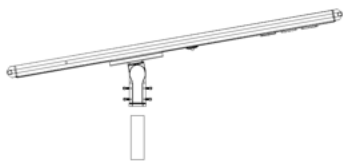
### Lighting test:

Open the packaging box, with the solar panel facing the dark side, press the light switch button, delay for 1-3 minutes, and the light will automatically turn on. The solar panel will automatically turn off when facing the sun for about 1 minute. Before installation, the main switch of the lamp must be turned on.



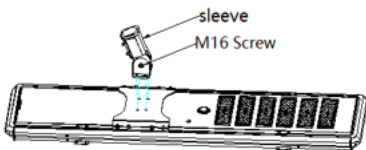
### 20-80W Installation:

Adjust the sleeve of the lamp to the desired angle and tighten the screws. Install the lamp onto the installed lamp post according to the usage requirements, and tighten the four screws with a hexagon wrench.

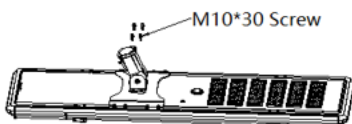


### 120W Installation:

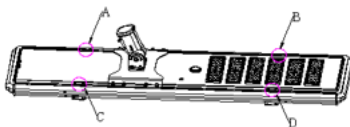
1. Open the packaging and remove the lamp, install the sleeve, adjust the angle, lock the M16 screws on the sleeve, and align it with the hole on the lamp.



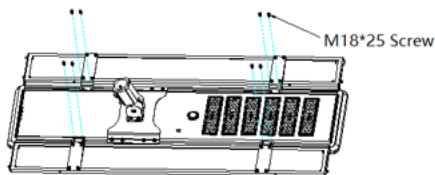
2. Use 4 pcs M10 \* 30 combination screws to secure the installation sleeve to the lamp.



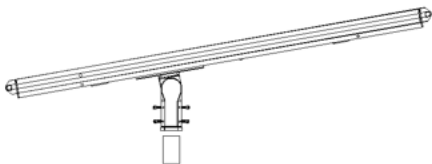
3. Unscrew the 8 M8 \* 25 combination screws at positions A, B, C, and D on the lamp, and open the Solar panels on both sides of the lamp.



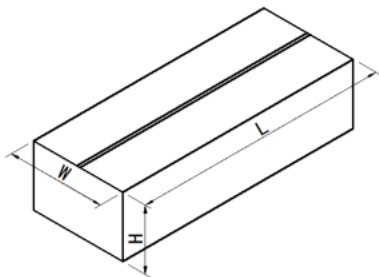
4. Align the fixing plate with the installation holes on the lamp and use M8 \* 25 combination screws to fix the Solar panels on both sides.



5. Install the lamp onto the installed lamp post according to the usage requirements, and tighten the four screws with a hexagon wrench.



## Packaging



Model No	EXC-CR-Z01-020	EXC-CR-Z01-040	EXC-CR-Z01-060	EXC-CR-Z01-080	EXC-CR-Z01-120
L(mm)	981	1222	1691	1867	1711
W(mm)	508	508	508	508	508
H(mm)	145	145	145	145	162

## Instructions for use:

1. The lamp should be installed away from fire and should not be obstructed by buildings, trees, or other objects, which may affect charging.
2. Non-professionals shouldn't disassemble or maintain the lamp, which may result in damage.
3. The product will not function properly if there is no sunlight for a long time.
4. The orientation and angle of the solar panel should be adjusted according to the local latitude.
5. When the battery is not used, it should be charged at least once every three months.

## Attentions:

1. Any form of installation/uninstallation or maintenance and electrical work must only be performed by a qualified electrician.
2. All wiring should be done after cutting off the power.
3. The street light must be grounded.
4. Always keep the lens/diffuser of the product cleaned to maintain good light transmission.
5. Always keep the shell of light cleaned to maintain good heat dissipation.
6. Cleaning must only be done with dry or wet cloth and the high bay should not be exposed to corrosive substance.
7. High voltage inside the fixture, please do not disassemble it, serious electric shock may occur otherwise.



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