

# Split-type Solar Street light

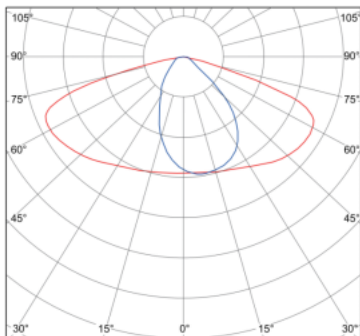
EXC-FR-Z10 series



## Introduction

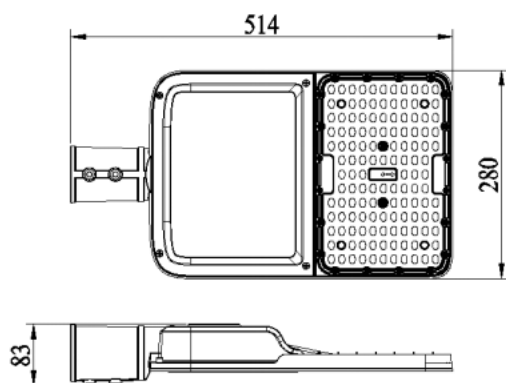
1. LED lens is made of high-quality imported optical materials, with accurate light distribution, high efficiency and strong weather resistance;
2. Using a brand new lithium iron phosphate battery, safe and durable, with a cycle life of >2000 times;
3. Adopting MPPT controller and environmental adaptive high-efficiency charging technology;
4. Using high lumen Leds 3030 with >180lm/W;
5. ADC12 aluminum alloy housing, IP65 waterproof, can be used in a variety of harsh environment;
6. The solar panel uses high-efficiency monocrystalline silicon wafers, with a maximum efficiency of 23.1%, lifespan is over 25 years;
7. The product can be upgraded to a smart IoT system for remote control
8. Easy for installation and maintenance.

## Lighting curve



## Size

Power(W)	Size (mm)			Maximum windward area(m <sup>2</sup> )	Weight (kg)
	L	W	H		
30/40/60/80	514	280	83	0.14	1.8



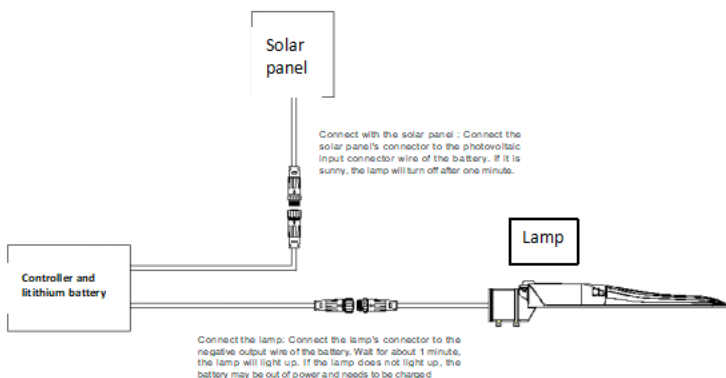
## Performance

Model No.	EXC-FR-Z10-030	EXC-FR-Z10-040	EXC-FR-Z10-060	EXC-FR-Z10-080
Power	30W	40W	60W	80W
Luminous flux	5500lm	7200lm	11000lm	14000lm
Solar panel	18V/80W	18V/120W	18V/150W	18V/200W
Lithium battery	LiFePO4 12.8V/18Ah	LiFePO4 12.8V/24AH	LiFePO4 12.8V/36AH	LiFePO4 12.8V/48AH
LED chip	3030/64PCS	3030/80PCS	3030/96PCS	3030/128PCS
CCT	3000-6500K			
Lighting angle	TYPE2 /TYPE3 /TYPE4			
Working mode	Mode 1: 2H-100%,2H-70%,8H-20%Mode 2: 1H-100%,1.5H-80%,1.5H-60%, 1H-40%, 7H-20%			
Rainy days	3~5 days			
Full power lighting time	11H	11H	12H	10H
Charging time	4~7H	6~9H	6~9H	6~9H
Material	Die casting ADC12			
Working mode	-20°C ~ +60°C			
IP degree	IP65			
Installation	Pole installation			
Recommended light pole diameter	60MM			
Recommended installation weight	4~6M	5~7M	6~8M	8~10M
Size	514*280*82mm			
Carton size	L589*W330*H145mm/1pcs			
Carton	1carton/1pcs			
Warranty	3years			

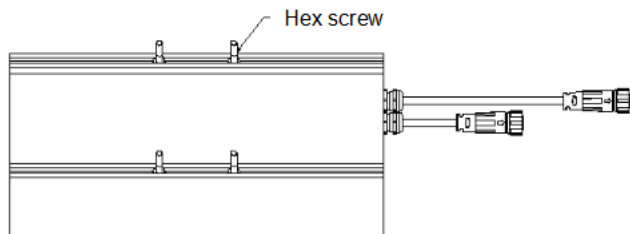
## Installation

### Lighting test:

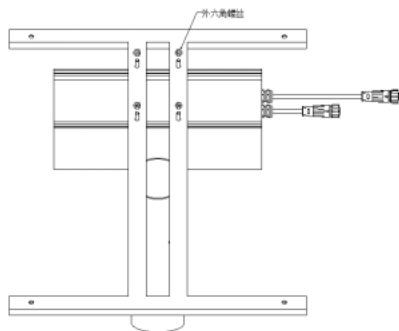
- ① Connect the lamp: Connect the lamp's connector to the negative output wire of the battery. Wait for about 1 minute, the lamp will light up. If the lamp does not light up, the battery may be out of power and needs to be charged;
- ② Connect with the solar panel: Connect the solar panel's connector to the photovoltaic input connector wire of the battery. If it is sunny, the lamp will turn off after one minute.



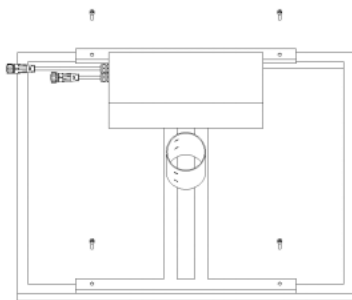
- ① Open the packaging of the lithium battery module and slide four M6\*25MM hex screws into the slots of the lithium battery module.



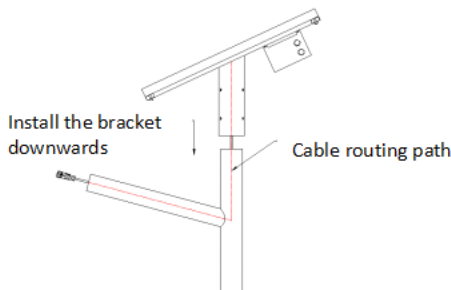
- ② Align the holes on the mounting bracket with the M6\*25 hex screws, and tighten them.



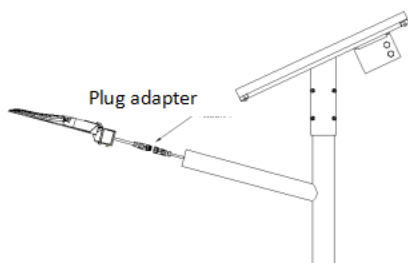
- ③ Unpack the solar panel and align the mounting brackets with the installation holes on the solar panel, using four M6\*25 screws and nuts to tighten them.



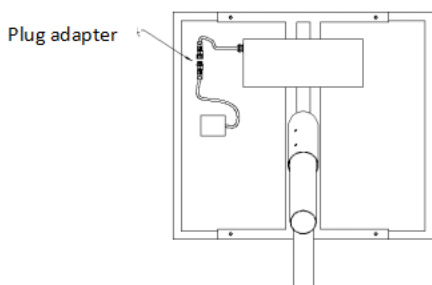
- ④ Thread the negative lead wire of the lithium battery module through the lamp pole arm, then fix the solar panel bracket onto the lamp pole, and tighten the screws.



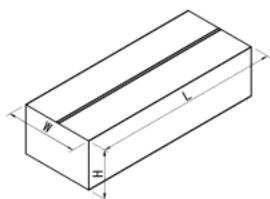
⑤ Tighten the lamp connector wire with the negative lead wire of the lithium battery module, then fix the lamp onto the lamp pole arm.



⑥ Finally, connect the solar panel output wire with the solar panel output wire of the lithium battery module to complete the installation.



## Packaging



Model No.	EXC-FR-Z10-030	EXC-FR-Z10-040	EXC-FR-Z10-060	EXC-FR-Z10-080
L(mm)	514	514	514	514
W(mm)	280	280	280	280
H(mm)	83	83	83	83
N.W (kg)	1.8	1.8	1.8	1.8
G.W (kg)	2.3	2.3	2.3	2.3

## Instructions:

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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