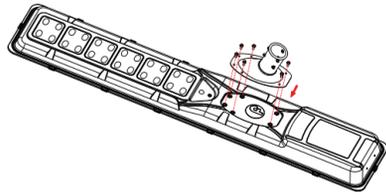## 4.INSTALLATION INSTRUCTIONS
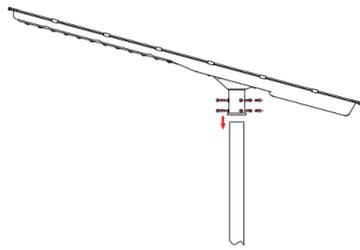
4.1 The tailstock installation
Use the screws to fix the bracket on the lamp
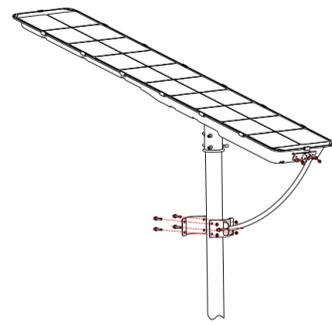

4.2 Light pole installed
Use the screws to fix the lamp on the post
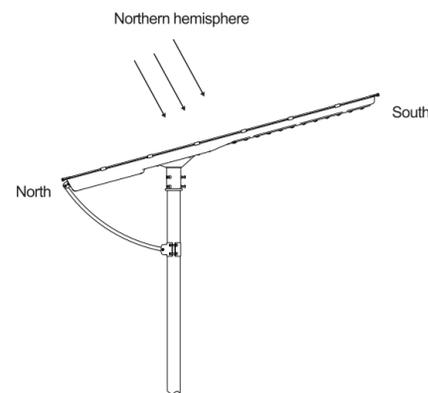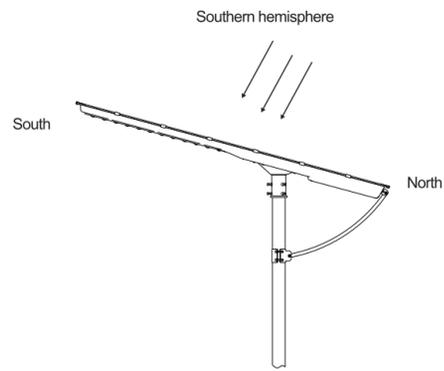

4.3 Bracket installation
Use the screws to fix the support bracket on the bracket and pole

Successful installation

1. Integrated solar street lights can't work without sunshine, Please choose suitable product model according to the sunlight intensity of the installed area or amount of solar radiation, and choose product model according to the actual lighting needs ;In the area where the sun is not enough or long-time continuous rainy day, the working time of the solar light will be reduced, this lamp design is mainly based on African average illumination time;

2. If install this product in the northern hemisphere, make solar panels as possible towards the south, in order to get maximum light energy; If it is in the southern hemisphere, installing solar panels towards the north. At the same time to avoid the shadow of houses, trees and other obstructions which will reduce the efficiency of the solar panel and shorten its work time.
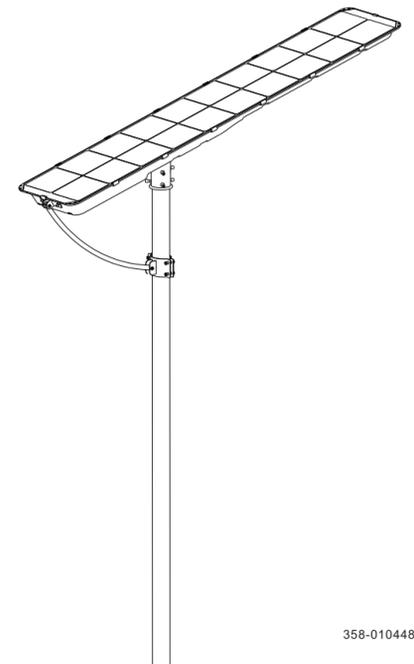

Southern hemisphere
South
North

Northern hemisphere
North
South

5.Warranty and after-service:
This product from the date of delivery, not artificial damage warranty for 36 months.

Felicitysolar®
Make life full of hope

User Manual
F2 Series
All in one solar street light

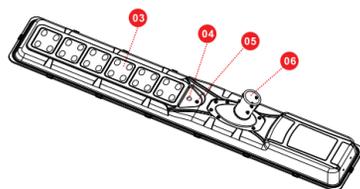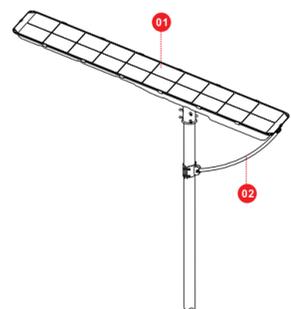
1.INTEGRATED SOLAR STREET LIGHT INTRODUCTION

1.1 Integrated design and source, high capacity LiFePO4 lithium battery, high energy, and long life, light weights, green and environmental protection, do not produce any harmful substances.
1.2 Philips LED chip with high light efficiency which can reach 200LM/W, and whole lamp light efficiency can reach 180LM/W at least
1.3 All series use MPPT controller with high effiency
1.4 Design with high efficiency solar cell (＞22%)
1.5 Convenient installation and maintenance, no need of cable installation or special light pole, functional components modular design, installation and maintenance, convenient and quick replacement.

2.Part description

1. Solar panel	2. Support bracket
3.LED light	4. Body induction
5. Switch	6. Tailstock

3.The performance parameters

Model	F2-80W	F2-120W	Note
Solar module	120W(Mono)	150W(Mono)	
High capacity lithium battery	Built-in 650WH	Built-in 999WH	
luminous flux (All light pattern)	14400lm	21600lm	
Working Mode	Normal mode(default): 0.5H100% 3.5H50% 3H25% 5H12% Induction mode(optional): No induction or customization		OEM according to the quantity
Solar panel charge time	8H strong sunlight		
Working — TimeAllight pattern	≥12 hours		
Working — Raining days backup	3 days		
Color temperature	6500K		
Induction angle	75°X 145°		
Light pole diameter	76mm		
Storage temperature	0-55℃		
Operating humidity	≤90％RH		
Working temperature — Charge temperature	0-55℃		
Working temperature — Discharge temperature	-10℃-60℃		
Ingress Protection	IP65		
Support bracket	No	Yes	
Recommend Installation height	6-8m	6-9m	
Product Package dimensions	1614*404*198mm	1944*404*213mm	2PCS/CTN
Product Gross weight	32.6KG	43.7KG	2PCS/CTN
Tailstock Package dimensions	413*207*198mm		2PCS/CTN
Tailstock Gross weight	4.5KG	6.0KG	2PCS/CTN
Light distribution curve	Mean beam Angle:114.8℃		