

Add: Building A Wanda Industry Park, Zhoushi Road, Shiyan Sub-district, Bao'an District, Shenzhen China.

Solar LED Street Light - FB Series

40W/50W/60W/80W/100W/120W



IP66 [K09]

FB Series integrated solar street lamp use imported high-efficiency monocrystalline silicon solar panel , smart MPPT controller, deep cycle lithium battery, high-efficiency led chip, all in one box Integrated design, easy to install and use and maintenance for seprated battery box













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Application

- 1. Street Lighting, Road Lighting, Roadway Lighting
- 2. Outdoor Area Lighting, High Mast Lighting
- 3. Park, schools, square, Parking lots





Features

- 1. Designed by a professional industrial design team, integrating solar panels, led sources, controller, battery, human body induction, and housing.
- 2. Adjustable angle mounting bracket, suitable for a variety of modeling lamp pole installation methods.
- 3. Intelligent power adjustment, automatic weather judgment, reasonable planning of discharge rules
- 4. Intelligent charging and discharging management, soft and hard double protection of charging and discharging and intelligent equalization technology, battery cycles more than 2000 times.
- 5. Smart remote control, equipped with drone remote control, ultra-long remote control distance of 30 meters, can pass through obstacles, and can set four lighting modes at will.
- 6. High-efficiency Bridgelux brand LED chips can reach 220LM/W, which is more than twice the average brightness of ordinary LED light sources, with luminous angle of 140 degrees, and a wider irradiation area.
- 7. The whole lamp adopts modular minimalist design, easy disassembly, installation, and transportation.

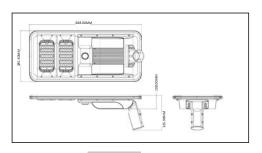


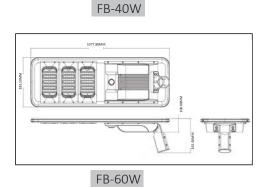
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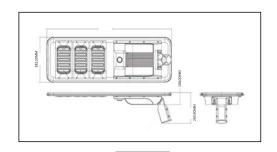
Installation Height

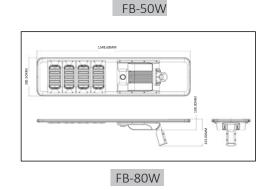


Dimmension(mm)





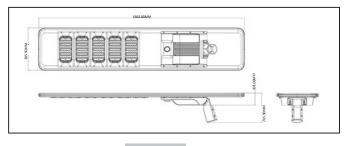


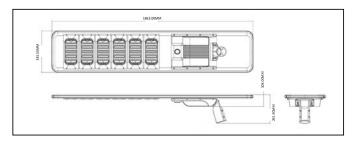




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Dimmension(mm)





FB-100W

Technical Specification

A: Technical Parameter

Model	HE-FB-40W	HE-FB-50W	HE-FB-60W	HE-FB-80W	HE-FB-100W	HF-FB-120W
LPW(lm/w)	180lm/w	180lm/w	180lm/w	180lm/w	180lm/w	180lm/w
Solar Panel	65W	70W	80W	100W	130W	140W
Mount Height	5-7m	6-7m	6-8m	7-9m	9-12m	9-12m
Mount Space	17-23m	20-23m	20-27m	23-30m	30-40m	30-40m
LiFeO4(WH)	345.6WH	460.8WH	537.6WH	729.6WH	806.4WH	921.6WH
Dimension(Lamp)	849*386*108mm	1078*386*108mm	1078*386*108mm	1549*386*108mm	1863*386*108mm	1863*386*108mm
LED Source(Bridgelux)	96	144	144	192	240	288
Cloudy/Rainy days	3-5Cloudy/Rainy days					
Solar Charging Time	6-10 hours by bright sunlight					
Motion sensor	Yes					
Beam Angle	140° x 70°					
IP Rating	IP66					
ССТ	2700~6500K(Customized)					
Install Pole diameter	Ф70-Ф76mm					
Lighting Mode	Dusk to dawn + Time controll + motion sensor (Bright lighting 30secs when people move through the light) + Remote Controller					
Material	High Class Aluminum					

B: Environmental

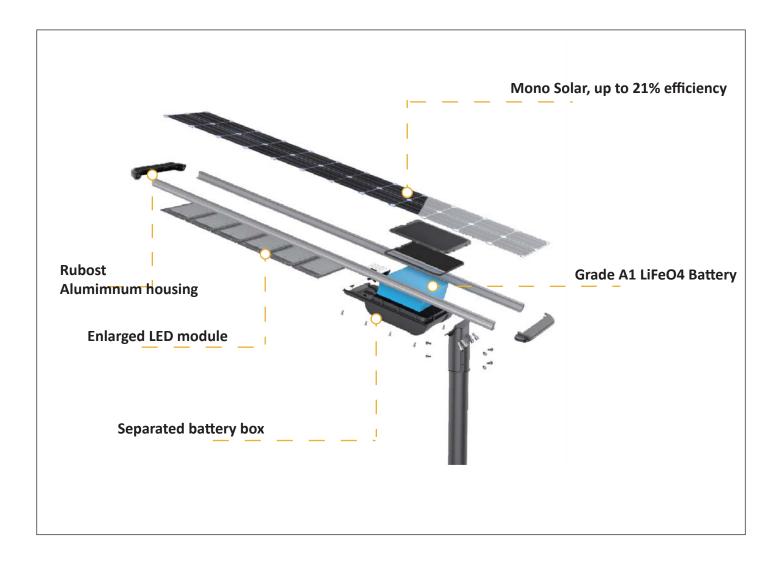
Temperature Range Operating	-20°C to 50°C
Humidity Range Operating	10% to 80%
Temperature Range Storage	-40℃to 65℃
Humidity Range Storage	10% to 80%

Web: www.hansen-energy.com | Email: sales@hansen-energy.com | Tel:+86 171 3295 8095



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Components Features





0° - 90° angle adjustable bracket



Separated battery box easy for maintenance



Latest Bridgelux LED Chip Up to 220lm/w

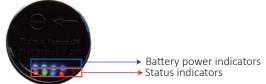


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Solar Charger Controller functions

The Controller of FB series adopts extremely simplified design, integrated controller, microwave induction, and magnetic switch in one, which makes the operation simple, the maintenance simple, and the stability is higher, what'more, there is a **stand-by circuit** inside, even one circuit failed, the other can still keep solar lights working well.





Sensor Indicators status				
Indicator light	Status	Indicator Light description		
	On	Movement Detected		
Yellow(Motion Sensor)	Off	No Movement Detected		
	On	LED wiht output: Light on		
Green(LED)	Off	LED without output: Light off		
	Flicker	LED short circuit		
	On	Battery power enought for working		
Blue(Battery)	Off	battery without output		
	Flicker	battery undervoltage		
	On	battery charged fully		
Blue(solar panel)	Off	solar panel without output(in night)		
	Flicker	solar panel is charging battery		
Red & Green & Blue	Cycle light on in sequence	battery cable plugged in backwards, poor battery connection contact, faulty battery, no battery conntected.		



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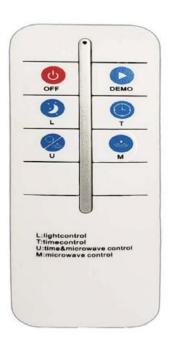
Remote Control & Motion Sensor

Hi-Tech Remote Control: Equipped with a 433 remote control, which uses a drone remote control solution. The remote control distance can reach 30 meters, which can directly penetrate obstacles. At the same time, it can control multiple lamps.

Four lighting modes are available: The mode can be selected according to the seasonal sun. The most suitable mode can be selected according to the seasonal sunshine.

Motion Sensor control: When people come, the brightness will be changed to 100% brightness, after 30seconds after people go away, 25% brightness for stand-by.







No matter day or night,light "OFF"



No matter day or night, light "on" for 1 minute.



At night,12hrs full power.



At night,4hrs full power+8hrs 30%



At night,4hrs full power+8hrs motion sensor control.



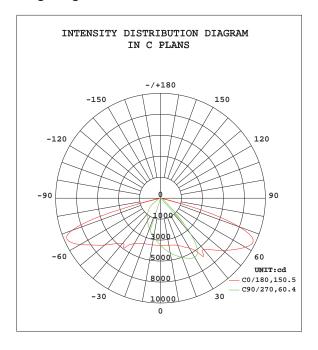
At night,12hrs motion sensor control.

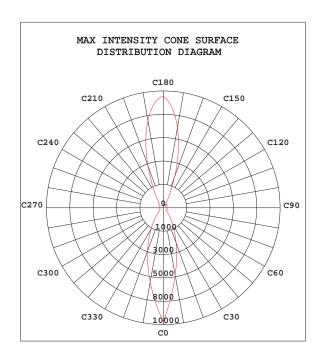


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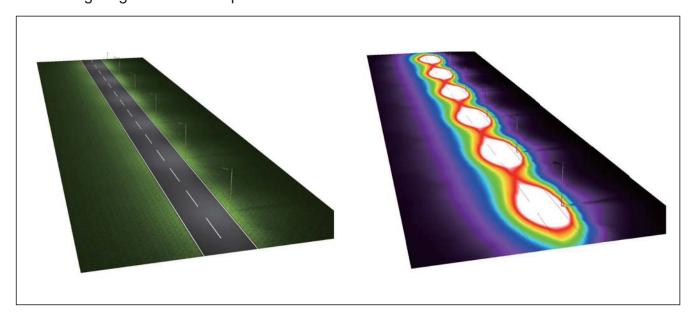
Light Distribution Curve & Lighting Simulation Support

Lighting Disctribution Curve





Dialux Lighting Simulation Suport

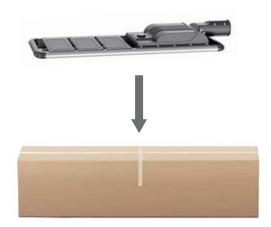




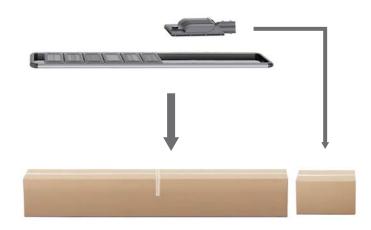
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Packing

FB-40W/FB-50W/FB-60W Package 1 package: 1 pc lamp per carton



FB-80W/FB-100W/FB-120W Package
2 packages: 1pc lamp per carton +
1pc battery pack per carton



Item	HE-FB-40W	HE-FB-50W	HE-FB-60W
Carton Size(Lamp)/ 1PC	920*160*450mm	1140*170*450mm	1140*170*450mm
G.W.(Lamp) / 1PC	11.5kg	14g	14.6kg

Item	HE-FB-80W	HE-FB-100W	HE-FB-120W
Carton Size(Lamp)/ 1PC	1630*10*450mm	1940*100*450mm	1940*100*450mm
G.W.(Lamp) / 1PC	8.5kg	12.4kg	13kg
Carton Size(bracket) / PC	630*380*150mm	630*380*150mm	630*380*150mm
G.W.(Solar Panel) / 1PC	8.8kg	9.7kg	10.5kg

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Insatllation (More Steps in User Manual)

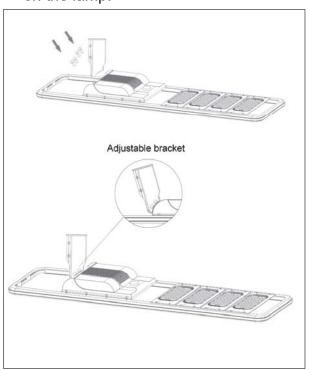


Post Top Installation



Side Entry Installation

1. Use the supplied screws to fix the bracket on the lamp.



2. Use the supplied screws to fix the lamp on the post.





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Compliance and Standards

1. Insulation Resistance

The IR shall be at least $50M\Omega$ when apply 500Vdc between primary and secondary

2. Dielectric Strength (Hi -pot)

Input To Output 3750Vac 60Hz 1minute ≤3MA

When AC voltage of 3.75KV is applied, and the voltage applied to the insulation under test is gradually raised from zero to the prescribed voltage in 1s, and held at that value for 60s between the inputs. and output and between the input and housing, the current sensitivity shall be less than 5mA. After this test, the adapter shall exhibit no electrical and mec hanical abnormalities.

3. Leakage Current

The leakage current shall be less than 0.25m A for class II when power supply is operated maximum input voltage and maximum load.

4. Safety Standard

34A-1501NP IEC:60598-1:2008 IEC61347-1/A1:2010 IEC61347-2-13:2006 IEC62031:2008

IEC62471:2006 IEC62471-2:2009: Passed

EN60598-1/A11:2009 EN61347-2-13:2006 EN61347-1/A1:2011 EN62031:2008 EN62471

EN61195:1999 EN62493:2010: Passed

5. EMI/EMS Standard

EN55015: Passed

EN61000-3-2: Passed

EN61000-4-2:Passed