



 **felicitysolar**<sup>®</sup>  
*Make life full of hope*

## SOLAR LIGHT

- A3 Series (P1-4)
- P2 Series (P5-6)
- P3 Series (P7-8)
- D2 Series (P9-12)
- F1 Series (P13-14)
- F1A Series (P15-16)
- HPFL 1003/15003 Series (P17-18)



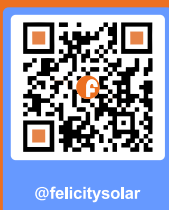
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**Guangzhou Felicity Solar Technology Co.,Ltd.**

Web: [www.felicitysolar.com](http://www.felicitysolar.com)

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# About Felicity

Guangzhou Felicity Solar Technology CO., Ltd was founded in 2007, located in Felicity Solar Photovoltaic Smart Industrial Zone, Baiyun District, Guangzhou, covering an area of 135000+ m<sup>2</sup>. Felicity Solar is a photovoltaic energy high-tech enterprise integrating R&D, production, sales and service. Facing the main scenarios of household, residential and commercial, the company focuses on energy storage and inverter solutions, and combines electronic power with energy storage, digital technology and artificial intelligence to create differentiated solutions.

Felicity Solar owns more than 2000 members, including more than 300 senior experts and professional technicians in new energy industrial. At the same time, Felicity Solar introduces advanced production equipments and production technologies from home and abroad. We keep devoting ourselves to researching and innovation, and realize independent R&D of the whole solar system. With the theme of "Photovoltaic+Energy Storage", based on the technology from several famous universities in China, Felicity Solar focuses on the design, R&D, production and sales of inverters, MPPT controllers, batteries, solar lights and other series products. 86+ technology patents were awarded to Felicity Solar, such as Invention Patents and Utility Model Patents. The products has obtained international certifications such as CE, ROHS and SONCAP. We have gradually set up sales channels and localized service in Africa, Middle East, Europe and the USA, covering more than 100 regional markets and has opened 40+ overseas branches. Felicity Solar has developed rapidly and has become one of the leading enterprises in Photovoltaic Energy Industry in Guangdong Province in these several years. In 2023, the output value is 1 billion, an increase of nearly 100%.

As an enterprising photovoltaic company, Felicity Solar always insists the development strategy of "Go Abroad, Grasp Demand, Construct Channel", and steadily strives to achieve Quality Products, Efficient Production, Streamlined Organization, Expand Market, First-class Brand. In the future, Felicity Solar will continue to devote to the popularization of photovoltaic energy storage systems as mission, adhering to the values of hard work, innovation, dedication and honesty. To provide users with better quality, more reliable products, and cleaner energy for people around the world.



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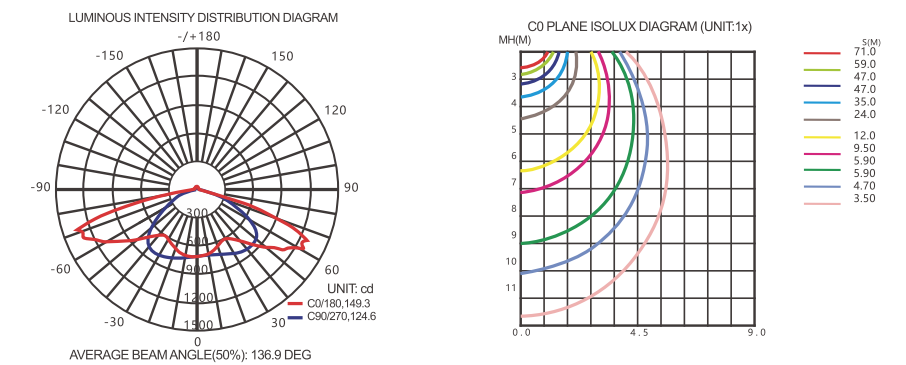
# ALL IN ONE SOLAR STREET LIGHT A3-30W-P/40W-P SERIES



## Product Parameter

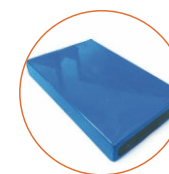
Model	A3-30W-P	A3-40W-P
Solar module	55W(Mono)	60W(Mono)
High capacity lithium battery	Built-in 260WH	Built-in 350WH
Luminous flux (All the light pattern)	4800 lm	6400 lm
Working Mode	Normal mode(default): 4H100% 4H50% 4H25% , Induction mode(optional): No induction or customization	
Solar panel charge time	8H strong sunlight	
Working	Time All light pattern	≥12 hours
	Raining days backup	3 days
Color temperature	6500K	
Induction angle	70°X 140°	
Light pole diameter	76-114mm	
Storage temperature	0-55°C	
Operating humidity	≤90%RH	
Working temperature	Charge temperature	0-55°C
	Discharge temperature	-10°C-60°C
Ingress Protection	IP65	
Support bracket	Yes	Yes
Recommend Installation height(m)	3-5m	3-6m
Recommend Installation spacing(m)	10~15m	10~15m
product size(mm)	998*364*43.3mm	1140*364*43.3mm
Product Package dimensions(mm)	1015*375*155mm	1115*385*155mm
Product Gross weight(KG)	20.9 KG	23.2 KG
Tailstock Package dimensions(mm)	420*125*160mm	420*125*160mm
Tailstock Gross weight(KG)	11.5 KG	11.5 KG

Light distribution curve

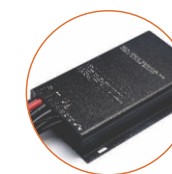


## Product Feature

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.
2. Design with high efficiency solar cell (>22%).
3. Convenient installation and maintenance, no need of cable installation or special light pole, functional components modular design, installation and maintenance, convenient and quick replacement.



LiFePO4 Battery



Efficient intelligent Controller



High Efficient solar cell (>22%)

# ALL IN ONE SOLAR STREET LIGHT A3-60W-P/60W/100W-S/150W SERIES



A3-60W-P



A3-60W



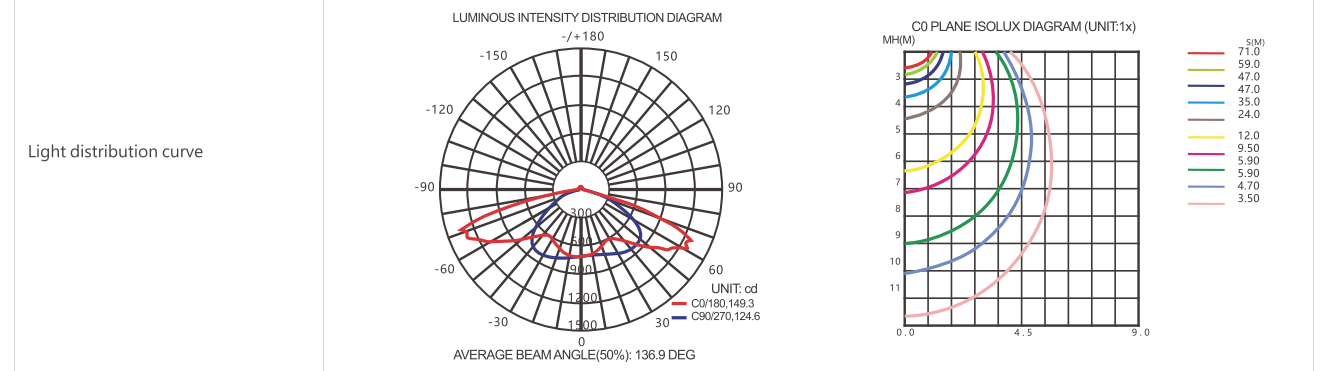
A3-100W-S



A3-150W

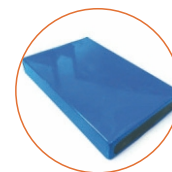
## Product Parameter

Model	A3-60W-P	A3-60W	A3-100W-S	A3-150W
Solar module	105W(Mono)	105W(Mono)	145W(Mono)	190W(Mono)
High capacity lithium battery	Built-in 405WH	Built-in 532WH	Built-in 888WH	Built-in 1240WH
Luminous flux (All the light pattern)	8100 lm	9600 lm	16000 lm	24000 lm
Working Mode	Normal mode(default): 4H100% 4H50% 4H25% , Induction mode(optional): No induction or customization			
Solar panel charge time	8H strong sunlight			
Working	Time All light pattern	≥12 hours		
	Raining days backup	3 days		
Color temperature	6500K			
Induction angle	70°X 140°			
Light pole diameter	114mm			
Storage temperature	0-55°C			
Operating humidity	≤90%RH			
Working temperature	Charge temperature	0-55°C		
	Discharge temperature	-10°C-60°C		
Ingress Protection	IP65			
Support bracket	No			
Recommend Installation height(m)	5-7m	6-9m	7-10m	
Recommend Installation spacing(m)	15~20m	20~25m	25~30m	
product size(mm)	1300*524.5*60mm	1570*524.5*67.5mm	1805*364*43.3mm	
Product Package dimensions(mm)	1315*535*170mm	1585*535*200mm	1815*615*150mm	
Product Gross weight(KG)	36 KG	46.3 KG	52.2 KG	
Tailstock Package dimensions(mm)	517*312*268mm	517*312*268mm	610*385*260mm	
Tailstock Gross weight(KG)	13.6 KG	13.6 KG	15.0 KG	

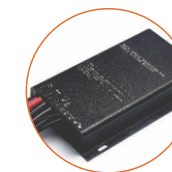


## Product Feature

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.
2. Design with high efficiency solar cell (>22%).
3. Convenient installation and maintenance, no need of cable installation or special light pole, functional components modular design, installation and maintenance, convenient and quick replacement.



LiFePO4 Battery



Efficient intelligent Controller



High Efficient solar cell (>22%)

# ALL IN ONE SOLAR STREET LIGHT

## P2-40W/60W/80W SERIES



P2-40W

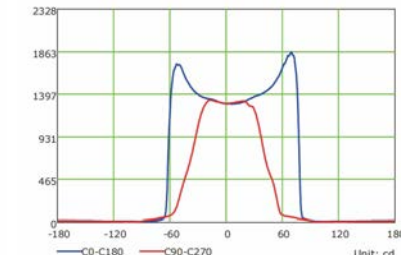
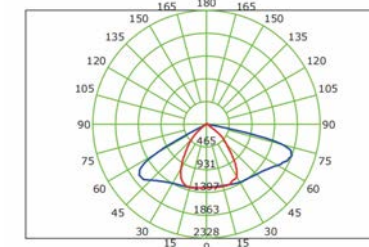
P2-60W

P2-80W

### Product Parameter

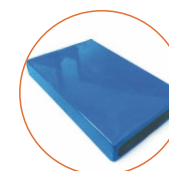
Model	P2-40W	P2-60W	P2-80W
Solar module	55W(Mono)	60W(Mono)	80W(Mono)
High capacity lithium battery	Built-in 260WH	Built-in 320WH	Built-in 400WH
Luminous flux (All the light pattern)	4800 lm	7200 lm	9600 lm
Working Mode	Normal mode(default): 3H100% 4H50% 5H25%, Induction mode(optional): No induction or customization		
Solar panel charge time	8H strong sunlight		
Working	Time All light pattern	≥12 hours	
	Raining days backup	3 days	
Color temperature	6500K		
Induction angle	70°X 140°		
Light pole diameter	60mm		
Storage temperature	0-55°C		
Operating humidity	≤90%RH		
Working temperature	Charge temperature	0-55°C	
	Discharge temperature	-10°C-60°C	
Ingress Protection	IP65		
Support bracket	No		
Recommend Installation height(m)	3-5m	3-6m	5-7m
Recommend Installation spacing(m)	10~15m	15~20m	15~20m
product size(mm)	1022*399*54mm	1134*399*54mm	1434*399*54mm
Product Package dimensions(mm)	1040*406*168mm	1151*406*168mm	1451*406*168mm
Product Gross weight(KG)	19.2KG	23.1 KG	28.8 KG
Tailstock Package dimensions(mm)	330*247*208mm	470*234*198mm	
Tailstock Gross weight(KG)	5.5KG	7.2 KG	

Light distribution curve



### Product Feature

1. High efficient solar cells, each solar cell has a perfect IV curve, and the conversion efficiency is as high as 22%;
2. The built-in lithium iron phosphate battery has a discharge depth of 95%. The lifespan could be 15 years under the discharge rate less than 0.5c condition and safety factor is very high;
3. With high lumen led, the light efficiency is higher and the service life is up to 50000 hours;
4. Imported PC outdoor optical lens and unique secondary optical design make the lighting area wider and the light color more uniform;
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;
6. IP65 protection grade.



LiFePO4 Battery



Efficient intelligent Controller



High Efficient solar cell (>22%)

# ALL IN ONE SOLAR STREET LIGHT P3-60W/80W SERIES

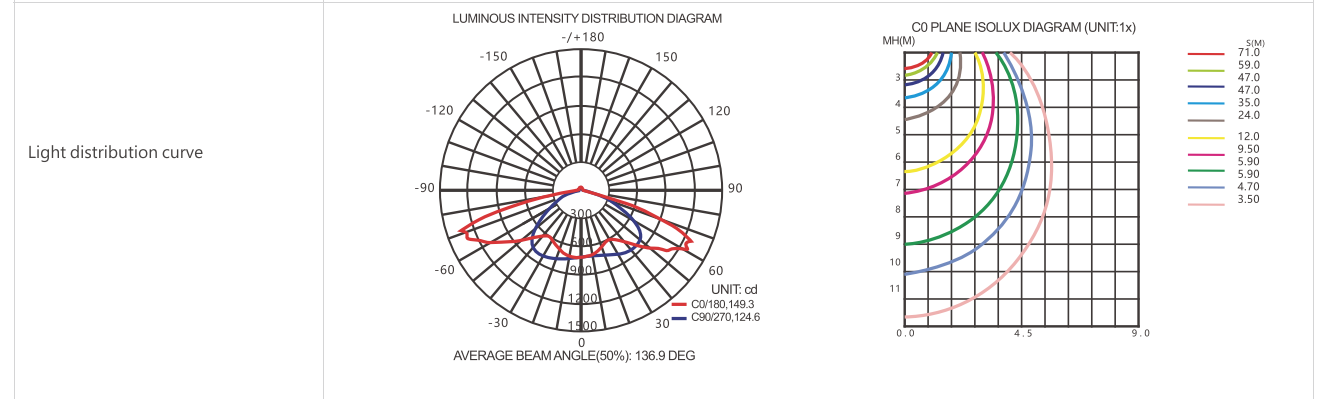


P3-60W

P3-80W

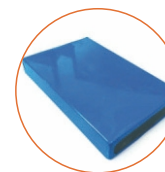
## Product Parameter

Model	P3-60W	P3-80W
Solar module	60W(Mono)	80W(Mono)
High capacity lithium battery	Built-in 260WH	Built-in 320WH
Luminous flux (All the light pattern)	4800 lm	7200 lm
Working Mode	Normal mode:3H100%,4H50%,5H25%	
Solar panel charge time	8H strong sunlight	
Working	Time All light pattern	≥12 hours
	Raining days backup	3 days
Color temperature	6500K	
Induction angle	70°X 140°	
Light pole diameter	60mm	
Storage temperature	0-55°C	
Operating humidity	≤90%RH	
Working temperature	Charge temperature	0-55°C
	Discharge temperature	-10°C-60°C
Ingress Protection	IP65	
Support bracket	No	
Recommend Installation height(m)	3-6m	5-7m
Recommend Installation spacing(m)	15~20m	15~20m
product size(mm)	1134*399*54mm	1434*399*54mm
Product Package dimensions(mm)	1151*406*168mm	1451*406*168mm
Product Gross weight(KG)	23.1 KG	28.8 KG
Tailstock Package dimensions(mm)	425*275*95mm	
Tailstock Gross weight(KG)	7.2 KG	

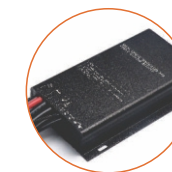


## Product Feature

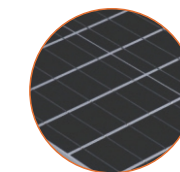
1. High efficient solar cells, each solar cell has a perfect IV curve, and the conversion efficiency is as high as 22%;
2. The built-in lithium iron phosphate battery has a discharge depth of 95%. The lifespan could be 15 years under the discharge rate less than 0.5c condition and safety factor is very high;
3. With high lumen led, the light efficiency is higher and the service life is up to 50000 hours;
4. Imported PC outdoor optical lens and unique secondary optical design make the lighting area wider and the light color more uniform;
5. The angle can be adjusted during installation, which is more conducive to absorbing light energy and improving charging efficiency;
6. IP65 protection grade.



LiFePO4 Battery



Efficient intelligent Controller



High Efficient solar cell (>22%)



Adjustable angle

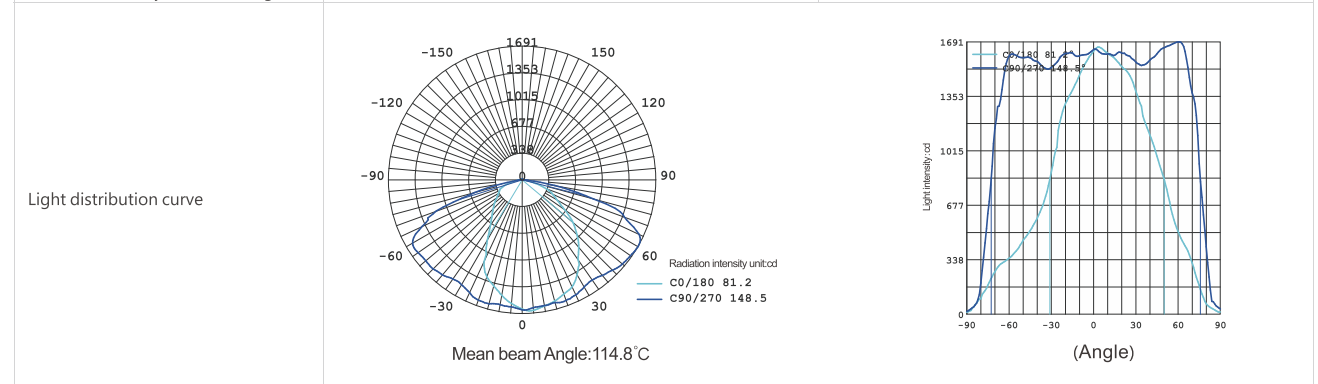
# ALL IN ONE SOLAR STREET LIGHT

## D2-30W-P/40W-P/60W-P/80W-P SERIES



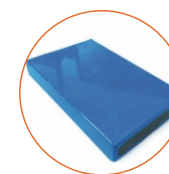
### Product Parameter

Model	D2-30W-P	D2-40W-P	D2-60W-P	D2-80W-P
Solar module	55W(Mono)	60W(Mono)	80W(Mono)	90W(Mono)
High capacity lithium battery	Built-in 260WH	Built-in 350WH	Built-in 405WH	Built-in 650WH
Luminous flux (All the light pattern)	4800 lm	6400 lm	8100 lm	10800 lm
Working Mode	Normal mode(default): 4H100% 4H50% 4H25% , Induction mode(optional): No induction or customization			
Solar panel charge time	8H strong sunlight			
Working	Time All light pattern	≥12 hours		
	Raining days backup	3 days		
Color temperature	6500K			
Induction angle	75°X 145°			
Light pole diameter	76mm			
Storage temperature	0-55°C			
Operating humidity	≤90%RH			
Working temperature	Charge temperature	0-55°C		
	Discharge temperature	-10°C-60°C		
Ingress Protection	IP65			
Support bracket	No	No	No	No
Recommend Installation height(m)	3-5m	3-6m	5-7m	6-8m
Recommend Installation spacing(m)	10~15m	10~15m	15~20m	15~20m
product size(mm)	965*402*51mm	1129*402*51mm	1441*402*51mm	1603*402*51mm
Product Package dimensions(mm)	982*409*153mm	1146*409*153mm	1458*409*153mm	1620*409*153mm
Product Gross weight(KG)	12.5 KG	16.5 KG	22.2 KG	25.6 KG
Tailstock Package dimensions	420*125*160mm			
Tailstock Gross weight	5.6 KG			
Accessories Battery dimensions(mm)	235*175*280mm		235*175*250mm	
Accessories Battery box Gross weight(KG)	9.6 KG		9.8 KG	

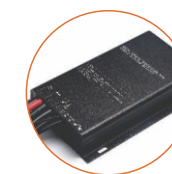


### Product Feature

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.
2. Design with high efficiency solar cell (>22%).
3. Convenient installation and maintenance, no need of cable installation or special light pole, functional components modular design, installation and maintenance, convenient and quick replacement.



LiFePO4 Battery



Efficient intelligent Controller



High Efficient solar cell (>22%)

# ALL IN ONE SOLAR STREET LIGHT D2-100W-S/120W-S/150W SERIES



D2-100W-S

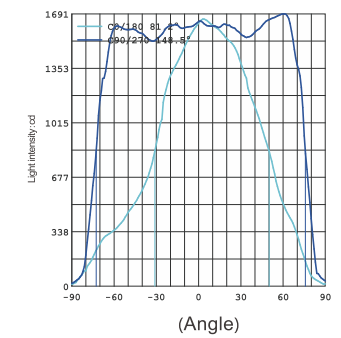
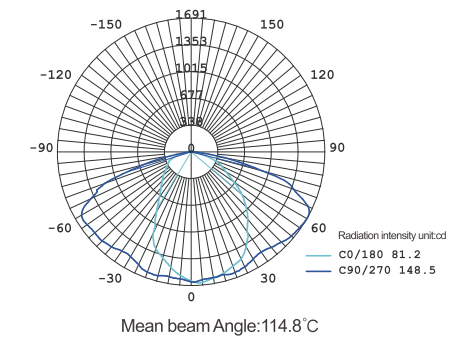
D2-120W-S

D2-150W

## Product Parameter

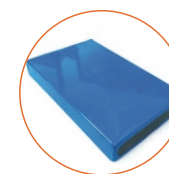
Model	D2-100W-S	D2-120W-S	D2-150W
Solar module	100W(Mono)	110W(Mono)	190W(Mono)
High capacity lithium battery	Built-in 888WH	Built-in 999WH	Built-in 1240WH
Luminous flux (All the light pattern)	16000 lm	19200 lm	24000 lm
Working Mode	Normal mode(default): 4H100% 4H50% 4H25% , Induction mode(optional): No induction or customization		
Solar panel charge time	8H strong sunlight		
Working	Time All light pattern	≥12 hours	
	Raining days backup	3 days	
Color temperature	6500K		
Induction angle	75°X 145°		
Light pole diameter	76mm		114mm
Storage temperature	0-55°C		
Operating humidity	≤90%RH		
Working temperature	Charge temperature	0-55°C	
	Discharge temperature	-10°C-60°C	
Ingress Protection	IP65		
Support bracket	Yes		
Recommend Installation height(m)	6-9m	6-9m	7-10m
Recommend Installation spacing(m)	20~25m	20~25m	25~30m
product size(mm)	1805*402*51mm	1934*402*51mm	1805*600*51mm
Product Package dimensions(mm)	1822*409*153mm	1951*409*153mm	1865*629*153mm
Product Gross weight(KG)	30.5 KG	33.5 KG	38.5 KG
Tailstock Package dimensions	420*125*160mm		
Tailstock Gross weight	5.6 KG		
Accessories Battery dimensions(mm)	265*195*320mm		
Accessories Battery box Gross weight(KG)	11.3 KG		
			18.9 KG

Light distribution curve

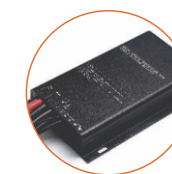


## Product Feature

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.
2. Design with high efficiency solar cell (>22%).
3. Convenient installation and maintenance, no need of cable installation or special light pole, functional components modular design, installation and maintenance, convenient and quick replacement.



LiFePO4 Battery



Efficient intelligent Controller



High Efficient solar cell (>22%)



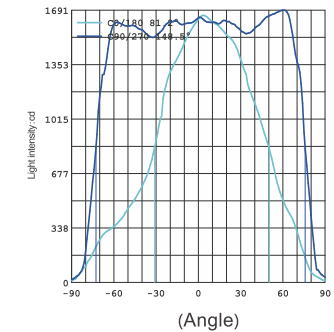
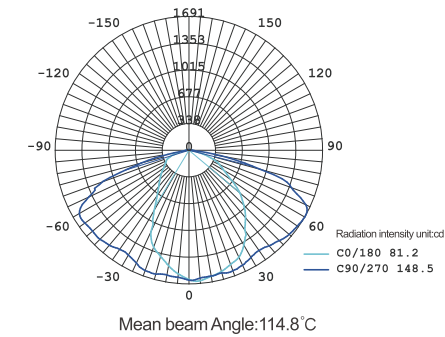
# ALL IN ONE SOLAR STREET LIGHT F1-60W/80W/100W/120W SERIES



## Product Parameter

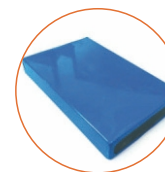
Model	F1-60W	F1-80W	F1-100W	F1-120W
Solar module	85W(Mono)	95W(Mono)	105W(Mono)	110W(Mono)
High capacity lithium battery	Built-in 523WH	Built-in 650WH	Built-in 888WH	Built-in 999WH
Luminous flux (All the light pattern)	9600 lm	12800 lm	16000 lm	19200 lm
Working Mode	Normal mode(default): 4H100% 4H50% 4H25% , Induction mode(optional): No induction or customization			
Solar panel charge time	8H strong sunlight			
Working	Time All light pattern	≥12 hours		
	Raining days backup	3 days		
Color temperature	6500K			
Induction angle	75°X 145°			
Light pole diameter	80mm			
Storage temperature	0-55°C			
Operating humidity	≤90%RH			
Working temperature	Charge temperature	0-55°C		
	Discharge temperature	-10°C-60°C		
Ingress Protection	IP65			
Support bracket	No	No	Yes	
Recommend Installation height(m)	5-7m	6-8m	7-9m	
Recommend Installation spacing(m)	15~20m	15~20m	20~25m	
product size(mm)	1479*390*74.3mm	1729.3*390*74.3mm	1803.5*390*74.3mm	
Product Package dimensions(mm)	1500*405*205mm	1745*405*205mm	1825*405*243mm	
Product Gross weight(KG)	23.9 KG	27.3 KG	32.2 KG	33.7 KG
Tailstock Package dimensions(mm)	420*315*118mm			500*315*118mm
Tailstock Gross weight(KG)	7.8 KG			9.2 KG

Light distribution curve

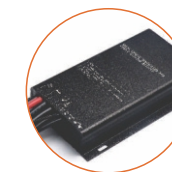


## Product Feature

1. High efficient solar cells, each solar cell has a perfect IV curve, and the conversion efficiency is as high as 22%;
2. The built-in lithium iron phosphate battery has a discharge depth of 95%. The lifespan could be 15 years under the discharge rate less than 0.5c condition and safety factor is very high;
3. With high lumen led, the light efficiency is higher and the service life is up to 50000 hours;
4. Imported PC outdoor optical lens and unique secondary optical design make the lighting area wider and the light color more uniform;
5. The angle can be adjusted during installation, which is more conducive to absorbing light energy and improving charging efficiency;
6. IP65 protection grade.



LiFePO4 Battery



Efficient intelligent Controller



High Efficient solar cell (>22%)



Adjustable angle

# ALL IN ONE SOLAR STREET LIGHT F1A-100W/120W SERIES

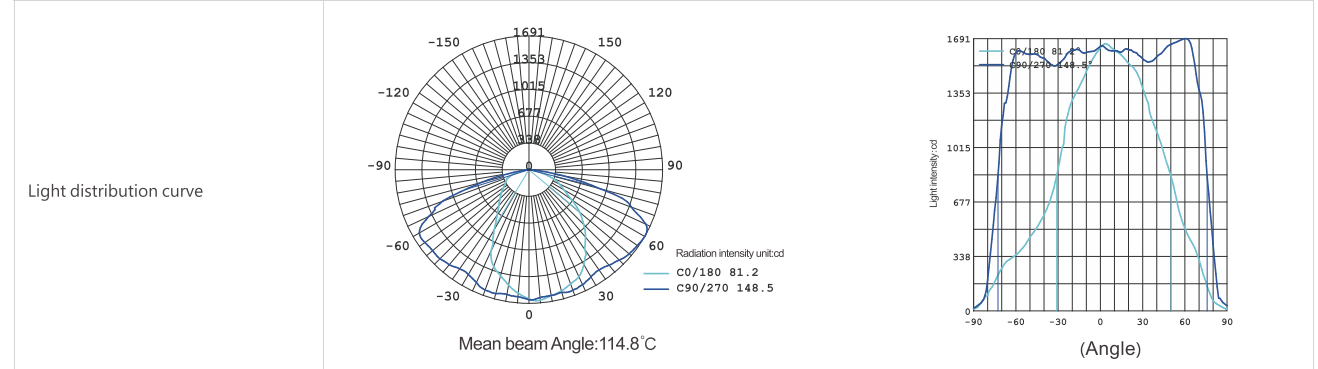


F1A-100W

F1A-120W

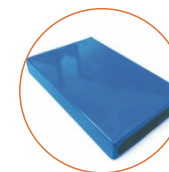
## Product Parameter

Model	F1A-100W	F1A-120W
Solar module	105W(Mono)	110W(Mono)
Ac input voltage	100-240Vac	
Ac power frequency	45~65Hz	
High capacity lithium battery	Built-in 888WH	Built-in 999WH
Luminous flux (All the light pattern)	20800 lm	21600 lm
Working Mode	Normal mode(default): 4H100% 4H50% 4H25% , Induction mode(optional): No induction or customization	
Solar panel charge time	8H strong sunlight	
Working	Time All light pattern	≥12 hours
	Raining days backup	3 days
Color temperature	6500K	
Induction angle	75°X 145°	
Light pole diameter	80mm	
Storage temperature	0-55°C	
Operating humidity	≤90%RH	
Working temperature	Charge temperature	0-55°C
	Discharge temperature	-10°C-60°C
Ingress Protection	IP68	
Support bracket	Yes	
Recommend Installation height(m)	8-10m	
Recommend Installation spacing(m)	25~35m	
product size(mm)	1885*390*74.3mm	
Product Package dimensions(mm)	1905*405*243mm	
Product Gross weight(KG)	35.2 KG	36.7 KG
Tailstock Package dimensions(mm)	500*315*118mm	
Tailstock Gross weight(KG)	9.2 KG	

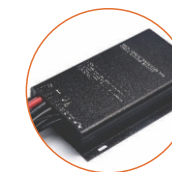


## Product Feature

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.
2. All series use MPPT controller with high efficiency which can reach 180LM/W at laest.
3. Design with high efficiency solar cell ( 22%)
4. Convenient installation and maintenance, no need of cable installation or special light pole, functional components modular design, installation and maintenance convenient and quick replacement.
5. When the solar energy is insufficient due to continuous rainy days, the system will switch the power supply to the mains to ensure that the LED is in the best state



LiFePO4 Battery



Efficient intelligent Controller



High Efficient solar cell (>22%)



AC100V-240V

# SOLAR FLOOD LIGHT HPFL 10003/15003 SERIES



## Product Parameter

Model	HPFL10003	HPFL15003
Power	100W	150W
Solar panel	35W	150W
Battery	111Wh LiFePO4 Battery	134Wh LiFePO4 Battery
LED Qty	192Pcs	308Pcs
Lumens	100Lm~120Lm/w	
Chip	Jingyuan / bridgelux	
Working mode	Switch / remote control / light control	
Color Temp	6000k-6500k	
CRI	Ra ≥ 75	
Light control Voltage	1V	
Remote control distance	5-8m, Line length three meters	
Charge time (full sunlight)	-30°C-60°C	
Life time	≥ 3 years	
Certificate	CE, ROHS	

## Product Display



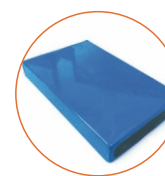
HPFL15003



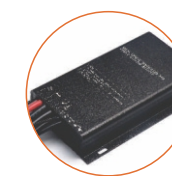
HPFL10003

## Product Feature

- Innovative Design:** Subverting the previous mechanical design, more sleek lines, more outstanding and upmarket shape.
- IP66 Waterproof:** Dustproof with good leakproofness, and can withstand the impact of strong rainstorm.
- Lighting modes:** 3-hours lighting, 5-hours lighting, 8-hours lighting, automatic mode
- Lithium Battery:** Adopting battery to replace traditional gel battery, long life-span.
- Modular Design:** All components are modular design and standardized



LiFePO4 Battery



Efficient intelligent  
Controller

# PROJECT CASE

We experienced in solar street light projects in Africa, South east Asia, Mid east. In the past year, we have undertaken lots of solar street light projects all over the world.

## All In One Solar Street Light for in lagos

### Specifications:

LED Source: 100W 500PCS      Working temperature: -20°C ~ 60°C  
Solar panel: Mono 145W      Battery: Built-in 888WH



## 300 Sets 50watt Solar Street Light in Uganda

### Specifications:

LED Source: 50W LED      Controller: 15A  
Solar panel: Poly 100W\*2pcs      Battery: 100Ah\*2pcs



## All In One Solar Street Light for in Ogun State Abeokuta

### Specifications:

LED Source: 30W 156PCS      Working temperature: -20°C ~ 60°C  
Solar panel: Mono 55W      Battery: Built-in 260WH



## 1000 sets of U3 split street lamp case

### Specifications:

Quantity: 1000 sets      Installation location: local market  
Configuration: U3-60W      Battery: 60A 3.2V      Pole: 7M



## All In One Solar Street Light for in Nigeria

### Specifications:

LED Source: 30W 2PCS      Working temperature: -20°C ~ 60°C  
Solar panel: Mono 60W      Battery: Built-in 12.8V 24AH



## 500 Sets 40W Nigeria street light project cases

### Specifications:

LED Source: 40W 12V      Controller: 20A 12V  
Solar Module: Poly 100W\*2      Battery: 150AH 12V      Pole: 8M

