Guangzhou Felicity Solar Technology Co.,Ltd.

www.felicitysolar.com

sales@felicitysolar.com

No. 2, Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou,China
(Only 10 Mins from Baiyun Airport)

Official Website

Facebook

Youtube

Linkedin

Ins

Digital Version of Catalog

felicitysolar®

Make life full of hope

SOLAR LIGHTING SYSTEM

STREET LIGHT & FLOOD LIGHT

Make life full of hope, make the world a better place



Copyrights © 2025 Guangzhou Felicity Solar Technology Co., Ltd.2025 All rights reserved.

LEARN ABOUT US

01

About Us

Company History

02

Why Choose Us

Cooperation Advantages

03

Product Series

F2 Series 120W

A3 Series 30~150W

P2 Series 40~80W

P3 Series 60~80W

D2 Series 30~150W

F1 Series 60~120W

F1A Series 100~120W

HPFL Series 100/150W

04

User Cases

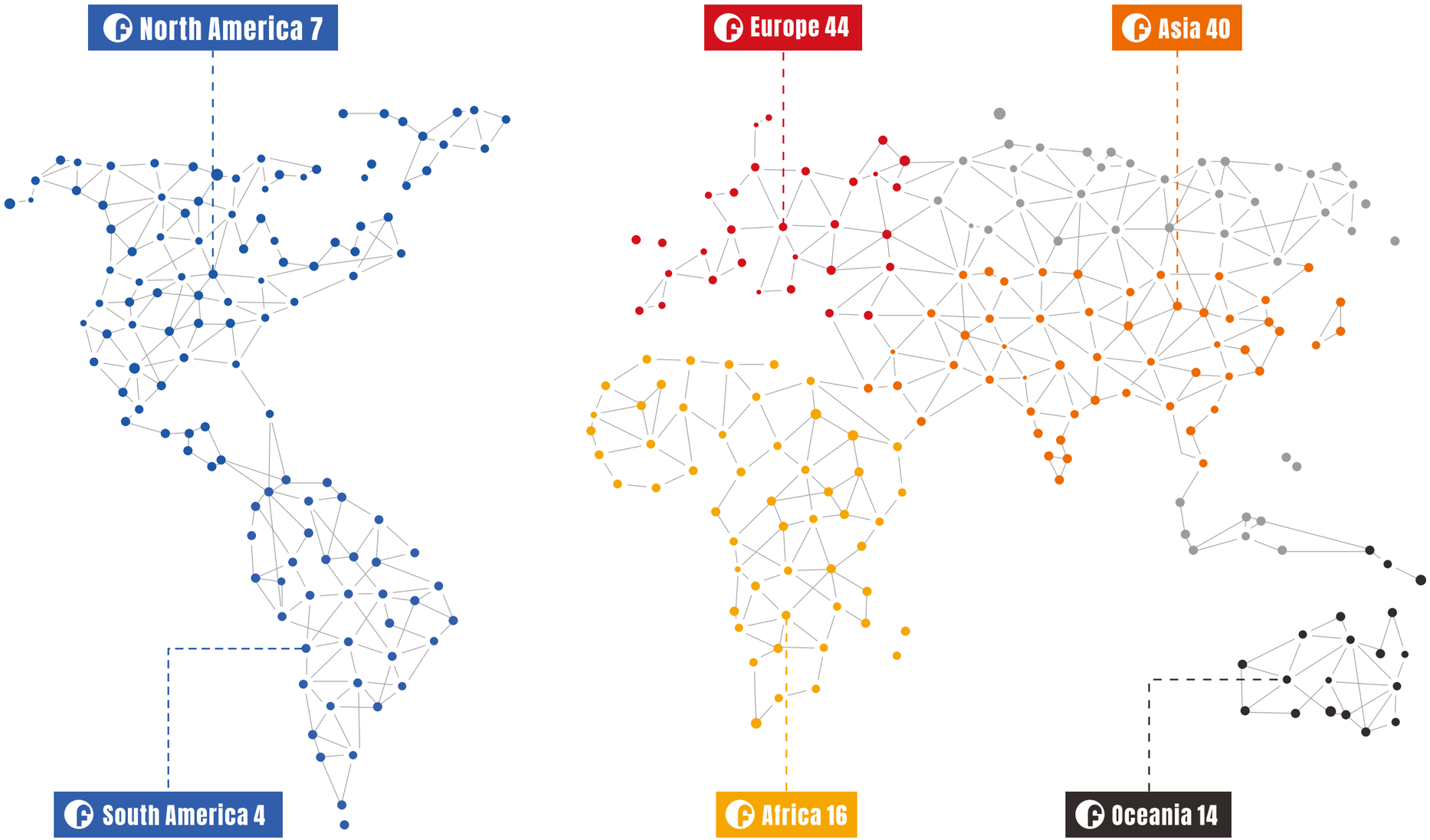


About Us

Headquartered in Guangzhou, China, Felicitysolar's 85,000+ sqm campus integrates R&D, manufacturing, sale, marketing and logistics operations. We are a trusted provider with 18 years of industry expertise, offering off-grid and hybrid solar energy storage solutions for residential, commercial, and industrial needs. With a R&D team of over 200 professionals, a 3,000 sqm R&D center, and more than 10% of annual investment dedicated to technology development, we had secured over 100 patents in core technologies. Through our 40+ global branches, we connect with users across 150+ countries and areas, delivering a comprehensive product line that includes inverters, battery packs, all-in-one systems and solar controllers. We are committed to bringing hope and a brighter future to the world through solar energy technology, both now and in the future.



Broad Business Scope



18 years Industry Expertise

100+ Patented Technologies

10%+ Technical Investment

40+ Overseas Branches

150+ Countries & Regions Market

200+ R&D Teammates

Company History.

2007
Company establishment.

2008-2010
Team formation and development of the photovoltaic product line.

2011
First solar panel produced.

2012-2014
Opened offline shops in Guangzhou, China, with steady growth.

2016-2017
Established first overseas branch in Nigeria.

2018-2020
Rapidly expanded African market while promoted self-developed lithium battery packs.

2021-2022
Entered Central Asia, the US and Europe market, elevating brand awareness constantly.

2023
Developed Photovoltaic Energy Storage Intelligent Cloud Control Engineering Research Center.

2024
Increased R&D investment over 10% of annual spending while expanded overseas after-sales service networks.

2025
Continually launch innovative products and plan to attend 40+ trade shows worldwide.

why choose us

18-Year Industry Expertise

- **Smart Cloud-Controlled R&D Center:**
  Specialized in PV energy storage engineering.
- **Advanced Cell Selection & Design:**
  Rigorous material selecting and structural innovation.
- **Multi-Stage Precision Testing:**
  Strict quality control protocols.
- **Intelligent Production Management:**
  Automated, efficient manufacturing processes.

Trustworthy Warranty Services

- **Comprehensive Warranty:**
  Prompt repair or replacement during coverage.
- **Genuine Parts Supply:**
  Original components to minimize downtime.
- **Multi-Channel Tech Support:**
  Remote diagnostics, phone guidance, or on-site troubleshooting.
- **Local Service Networks:**
  Fast access to on-site inspection and repair services.

24-hour Responsive After-sale Solutions

We respond within 12 hours and provide professional after-sales support within 24 hours.







AII-IN-ONE SOALR STREET LIGHT F2 SERIES 120W

Features

High conversion efficiency with solar cells(>22%).

Equipped with an LFP battery for longer runtime and stable performance.

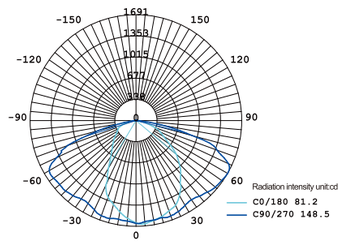
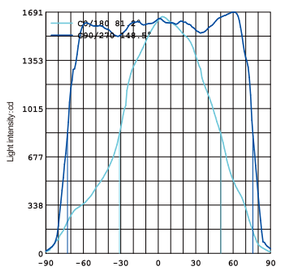
Built-in controller for maximum solar energy conversion efficiency.

Easy installation and maintenance without cable or special light pole.

Quick replacement with functional components modular design.

Philips LED chip: 200 lm/W; fixture efficacy ≥ 180 lm/W.

Parameters

Model		F2-120W
Solar Module		150W(Mono)
High Capacity Lithium Battery		Built-in 999Wh
Luminous Flux (All the light pattern)		21600 lm
Working Mode (1)		Normal mode(default): 0.5H100% 3.5H50% 3H25% 5H12% 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		Yes
Recommend Installation Height(m)		6-9 (2 PCS / CTN)
Product Package Dimensions(mm)		1944*404*213 (2 PCS / CTN)
Product Gross Weight(kg)		43.7 (2 PCS / CTN)
Tailstock Package Dimensions(mm)		413*207*198 (2 PCS / CTN)
Tailstock Gross Weight(kg)		6.0 (2 PCS / CTN)
Light Distribution Curve		 Mean beam Angle:114.8℃ 

(1) OEM according to the quantity



AII-IN-ONE SOALR STREET LIGHT
A3 SERIES 30~150W

Features

High conversion efficiency with solar cells(>22%).

Equipped with an LFP battery for longer runtime and stable performance.

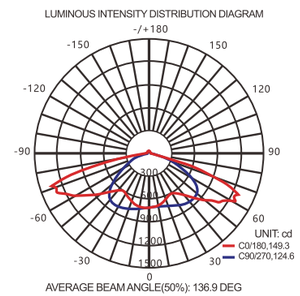
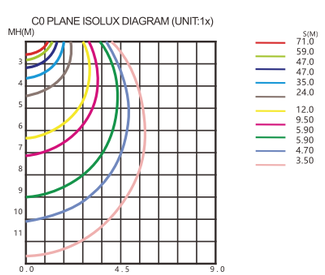
Built-in controller for maximum solar energy conversion efficiency.

Easy installation and maintenance without cable or special light pole.

Quick replacement with functional components modular design.

IP65-rate protection & Light weight.

Parameters

Model		A3-30W	A3-40W	A3-60W-P	A3-60W	A3-100W-S	A3-150W-S
Solar Module		55W(Mono)	60W(Mono)	105W(Mono)	105W(Mono)	130W(Mono)	150W(Mono)
High Capacity Lithium Battery		Built-in 260Wh	Built-in 350Wh	Built-in 400Wh	Built-in 532Wh	Built-in 888Wh	Built-in 1240Wh
Luminous Flux (All the light pattern)		4800 lm	6400 lm	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		76-114mm		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	No	No	No	No
Recommend Installation Height(m)		3-5	3-6	5-7	5-7	6-9	7-10
Product Package Dimensions(mm)		1015*375*145	1115*375*145	1315*535*170	1315*535*170	1585*535*200	1785*535*200
Product Gross Weight(kg)		20.9	23.2	33.9	33.9	43.6	48.8
Tailstock Package Dimensions(mm)		420*125*160		517*312*268			
Tailstock Gross Weight(kg)		7.3		11.6			
Light Distribution Curve								



AII-IN-ONE SOALR STREET LIGHT
P2 SERIES 40~80W

Features

High conversion efficiency with solar cells(>22%).

Equipped with an LFP battery for longer runtime and stable performance.

Built-in controller for maximum solar energy conversion efficiency.

Easy installation and maintenance without cable or special light pole.

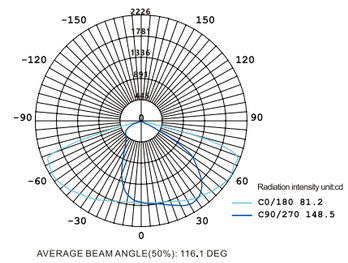
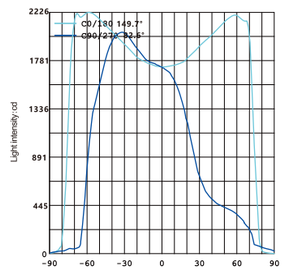
Quick replacement with functional components modular design.

IP65-rate protection & Light weight.

High-lumen LED delivers efficient lighting with a 50,000-hour lifespan.

Imported PC outdoor optical lens and unique secondary design for wider lighting area and more uniform light color.

Parameters

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)		3-5	3-6	5-7
Product Package Dimensions(mm)		1040*406*158	1151*406*158	1451*406*168
Product Gross Weight(kg)		23.5	25.8	32.6
Tailstock Package Dimensions(mm)		330*234*198	470*234*198	
Tailstock Gross Weight(kg)		5.6	7.9	
Light Distribution Curve		 		



AII-IN-ONE SOALR STREET LIGHT P3 SERIES 60~80W

Features

High conversion efficiency with solar cells(>22%).

Equipped with an LFP battery for longer runtime and stable performance.

Built-in controller for maximum solar energy conversion efficiency.

Adjustable angle enhances light absorption for better charging efficiency.

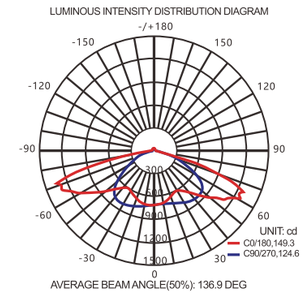
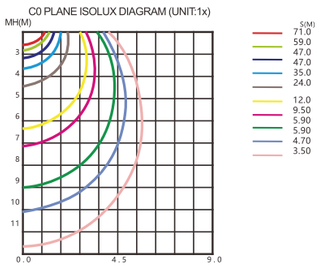
Quick replacement with functional components modular design.

IP65-rate protection & Light weight.

High-lumen LED delivers efficient lighting with a 50,000-hour lifespan.

Imported PC outdoor optical lens and unique secondary design for wider lighting area and more uniform light color.

Parameters

Model		P3-60W-II	P3-80W-II
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)		3-5	3-6
Recommend Installation spacing(m)		10-15	15-20
Product Package Dimensions(mm)		1151*406*158	1451*406*168
Product Gross Weight(kg)		25.8	32.6
Tailstock Package Dimensions(mm)		425*275*95	425*275*95
Tailstock Gross Weight(kg)		6.4	6.4
Light Distribution Curve			



AII-IN-ONE SOALR STREET LIGHT
D2 SERIES 30~150W

Features

High conversion efficiency with solar cells(>22%).

LPF

Equipped with an LFP battery for longer runtime and stable performance.

Built-in controller for maximum solar energy conversion efficiency.

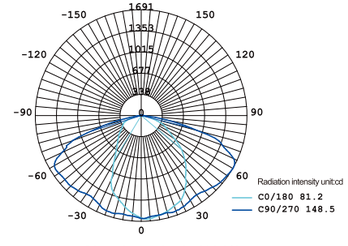
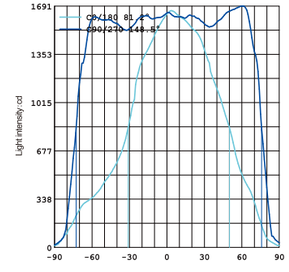
Easy installation and maintenance without cable or special light pole.

Quick replacement with functional components modular design.

IP65

IP65-rate protection & Light weight.

Parameters

Model		D2-30W-P	D2-40W-P	D2-60W-P	D2-80W-P	D2-100W-S	D2-120W-S	D2-150W
Solar Module		55W(Mono)	65W(Mono)	80W(Mono)	90W(Mono)	100W(Mono)	120W(Mono)	190W(Mono)
High Capacity Lithium Battery		Built-in 260Wh	Built-in 350Wh	Built-in 400Wh	Built-in 650Wh	Built-in 888Wh	Built-in 999Wh	Built-in1240Wh
Luminous Flux (All the light pattern)		4800 lm	6400 lm	8100 lm	100800 lm	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℃						
Operating Humidity		≤90%RH						
Working Temperature	Charge Temperature	0-55℃						
	Discharge Temperature	−10℃-60℃						
Ingress Protection		IP65						
Support Bracket		No	No	No	No	Yes	Yes	Yes
Recommend Installation Height(m)		3-5	3-6	5-7	6-8	6-9	6-9	7-10
Product Package Dimensions(mm)		982*409*143	1146*409*143	1458*409*143	1620*409*153	1822*409*153	1951*409*153	1865*629*153
Product Gross Weight(kg)		16.8	19.8	23.1	26.7	31.2	34.7	45.7
Tailstock Package Dimensions(mm)		420*210*375						640*390*400
Tailstock Gross Weight(kg)		6.1				8.0		10.6
Accessories Battery dimensions(mm)		235*175*280		235*175*250		265*195*320		555*195*400
Accessories Battery box Gross weight(kg)		7.5		8.8		13.2		17.0
Light Distribution Curve		 Mean beam Angle:114.8℃						



AII-IN-ONE SOALR STREET LIGHT
F1 SERIES 60~120W

Features

High conversion efficiency with solar cells(>22%).

Equipped with an LFP battery for longer runtime and stable performance.

Built-in controller for maximum solar energy conversion efficiency.

Adjustable angle enhances light absorption for better charging efficiency.

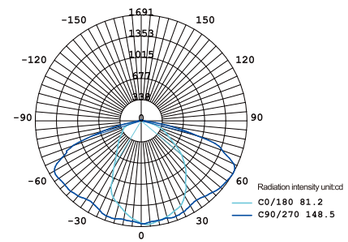
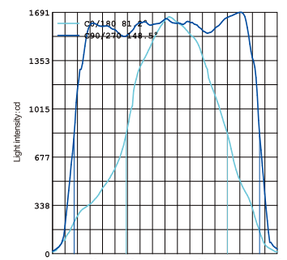
Quick replacement with functional components modular design.

IP65-rate protection & Light weight.

High-lumen LED delivers efficient lighting with a 50,000-hour lifespan.

Imported PC outdoor optical lens and unique secondary design for wider lighting area and more uniform light color.

Parameters

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 532Wh	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	Yes
Recommend Installation Height(m)		5-7	6-8	7-9	8-10
Product Package Dimensions(mm)		1500*449*278	1745*449*278	1825*449*278	1905*449*278
Product Gross Weight(kg)		37.8	45.4	49	51.5
Tailstock Package Dimensions(mm)		420*315*118		500*315*118	
Tailstock Gross Weight(kg)		8.8		11.8	
Light Distribution Curve		 Mean beam Angle:114.8℃			



AII-IN-ONE SOALR STREET LIGHT
F1A SERIES 100~120W

Features

High conversion efficiency with solar cells(>22%).

Equipped with an LFP battery for longer runtime and stable performance.

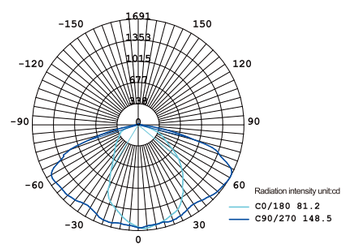
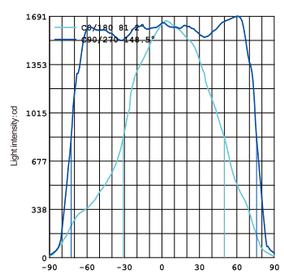
Built-in controller for maximum solar energy conversion efficiency.

Easy installation and maintenance without cable or special light pole.

Quick replacement with functional components modular design.

Seamless switch to mains for uninterrupted lighting on rainy days.

Parameters

Model		F1A-100W	F1A-120W
Solar Module		105W(Mono)	110W(Mono)
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): All night; Induction:100% no induction:20%	
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		Yes	
Recommend Installation Height(m)		10-12	10-12
Product Package Dimensions(mm)		1825*449*278	1905*449*278
Product Gross Weight(kg)		51.2	53.5
Tailstock Package Dimensions(mm)		500*315*118	
Tailstock Gross Weight(kg)		8.8	11.8
Light Distribution Curve		 Mean beam Angle:114.8℃	



SOLAR FLOOD LIGHT
HPFL SERIES100/150W

Parameters

Model	HPFL10003	HPFL15003
Power	100W	150W
Solar Panel	35W	45W
Battery	111Wh LiFePO4 Battery	134Wh LiFePO4 Battery
LED Qty	192Pcs	308Pcs
Lumens	100Lm~120Lm/w	
Chip	Jingyuan / Dridgelux	
Working Mode	Switch / remote control / light control	
Color Temp	6000k-6500k	
CRI	Ra ⩾ 75	
Light Control Voltage	1V	
Remote Control Distance	6-8h	
Charge Time (Full Sunlight)	-30°C-60°C	
Life Time	⩾ 3 years	
Certificate	CE, ROHS	



Features

High conversion efficiency with solar cells(>22%).

Equipped with an LFP battery for longer runtime and stable performance.

Built-in controller for maximum solar energy conversion efficiency.

Quick replacement with functional components modular design.

Resist against the harsh environment with IP66-rate protection.

User Cases

With extensive expertise in solar lighting system, we have successfully implemented numerous projects across diverse regions including Africa, Southeast Asia, and the Middle East.



P2-80W

Size: 20 Sets
Scenario: Filling station

- Solar Power: 80W
- Battery: 400Wh LFP Battery
- Recommended Installation Hight: 5-7m



P2-60W

Size: 4 Sets
Scenario: Yard

- Solar Power: 80W
- Battery: 400Wh LFP Battery
- Recommended Installation Hight: 5-7m



HPFL 15003

Size: 6 Sets
Scenario: House

- Power: 150W
- Battery: 134Wh LFP Battery



P2-80W

Size: 200 Sets
Scenario: Road

- Solar Power: 80W
- Battery: 400Wh LFP Battery
- Recommended Installation Hight: 5-7m



HPFL 15003

Size: 150 Sets
Scenario: Medium-sized Park

- Power: 150W
- Battery: 134Wh LFP Battery



F1A-120W

Size: 300 Sets
Scenario: Road

- Solar Power: 110W
- Battery: 999Wh LFP Battery
- Recommended Installation Hight: 8-10m



HPFL 15003

Size: 30 Sets
Scenario: School

- Power: 150W
- Battery: 134Wh LFP Battery