

Felicity Solar D2-30W-P/40W-P/60W-P/80W-P/100W-S/120W-S/150W

100 W, all-in-one solar street light with a built-in LFP battery.

Models Covered: D2-30W-P, D2-40W-P, D2-60W-P, D2-80W-P, D2-100W-S, D2-120W-S, D2-150W

Manufacturer: Shenzhen Felicity Solar Technology Co., Ltd.

Application: The Felicity Solar D2-100W-S is an all-in-one solar street light: panel, LFP battery, controller and LED in one housing, so there is no cable run and no separate pole box. 100 W, It charges in about eight hours of strong sunlight, lights for twelve hours or more on the full pattern, and holds three days of rain in reserve.

Technical Specifications

Parameter	D2-30W-P	D2-40W-P	D2-60W-P	D2-80W-P	D2-100W-S	D2-120W-S
General Data						
Luminous Flux	4800 lm	6400 lm	8100 lm	100800 lm	16000 lm	19200 lm
Color Temperature	6500K					
Working Mode	Normal mode (default): 4H 100%, 4H 50%, 4H 25%; induction mode (optional): no induction or customization					
Induction (PIR) Angle	75° x 145°					
PV String Input Data						
Solar Module	55W (Mono)	65W (Mono)	80W (Mono)	90W (Mono)	100W (Mono)	120W (Mono)
Electrical / AC Output Data						
Rated AC Power	30 W	40 W	60 W	80 W	100 W	120 W
Battery Data						
Battery Capacity	Built-in 260Wh	Built-in 350Wh	Built-in 400Wh	Built-in 650Wh	Built-in 888Wh	Built-in 999Wh
Rainy Days Backup	3 days					
Working Time	≥12 hours					
Solar Charge Time	8H strong sunlight					
Protection Features						
IP Rating	IP65					
Mechanical Data						
Package Dimensions	982*409*143 mm	1146*409*143 mm	1458*409*143 mm	1620*409*153 mm	1822*409*153 mm	1951*409*153 mm
Recommended Installation Height	3-5 m	3-6 m	5-7 m	6-8 m	6-9 m	6-9 m
Weight	16.8 kg	19.8 kg	23.1 kg	26.7 kg	31.2 kg	34.7 kg

Parameter	D2-30W-P	D2-40W-P	D2-60W-P	D2-80W-P	D2-100W-S	D2-120W-S
Accessories Battery Box Dimensions	235*175*280 mm	235*175*280 mm	235*175*250 mm	235*175*250 mm	265*195*320 mm	265*195*320 mm
Accessories Battery Box Gross Weight	7.5 kg	7.5 kg	8.8 kg	8.8 kg	13.2 kg	13.2 kg
Light Pole Diameter	76mm	76mm	76mm	76mm	76mm	76mm
Support Bracket Included	No	No	No	No	Yes	Yes
Tailstock Gross Weight	6.1 kg	6.1 kg	6.1 kg	6.1 kg	8.0 kg	8.0 kg
Tailstock Package Dimensions	420*210*375 mm	420*210*375 mm	420*210*375 mm	420*210*375 mm	420*210*375 mm	420*210*375 mm
Operating Conditions						
Charging Temperature Range	0-55°C					
Discharging Temperature Range	-10°C-60°C					
Relative Humidity	≤90%RH					
Storage Temperature Range	0-55°C					

Note: Specifications are based on the official Felicity Solar D2-30W-P/40W-P/60W-P/80W-P/100W-S/120W-S/150W datasheet. Values may be subject to change; always verify against the latest manufacturer documentation before system design and procurement.

Availability & grid compliance in UAE

Market	UAE
Grid authority / regulator	DEWA, ADDC, SEWA
Quotation currency	AED
Support hours timezone	Asia/Dubai
Delivery & installation coverage	Dubai, Abu Dhabi, Sharjah, Ajman, Ras Al Khaimah

Figures on this page are the manufacturer's own, measured at the test conditions the datasheet states — they do not change by country. What changes is the approval that has to be met before the unit is energised: in UAE that is DEWA, ADDC, SEWA. Confirm the grid code, import requirements and any local certification with them, or with us, before you order.

Key Features & Technical Highlights

- **All in one:** Panel, battery, controller and LED in a single housing.
- **LFP battery:** Longer service life than the gel packs it replaces.
- **Three rainy days in reserve:** Twelve hours or more of light per charge.

Frequently Asked Questions

► How long does the D2-30W-P light for?

► How bright is the D2-30W-P?

► What pole does the D2-30W-P need?

► How bright is the D2-40W-P?

► What pole does the D2-40W-P need?

► How bright is the D2-60W-P?

► What pole does the D2-60W-P need?

► How bright is the D2-80W-P?

► What pole does the D2-80W-P need?

► How bright is the D2-100W-S?

Official Source & Documentation

This technical datasheet is derived from official manufacturer documentation provided by **Shenzhen Felicity Solar Technology Co., Ltd.** For the latest specifications, firmware updates, and official documentation, visit the manufacturer's website.

- **Manufacturer Website:** www.felicitysolar.com
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Disclaimer: All specifications and technical data presented on this page are based on the official Felicity Solar D2-30W-P/40W-P/60W-P/80W-P/100W-S/120W-S/150W datasheet published by Shenzhen Felicity Solar Technology Co., Ltd. Specifications are subject to change without notice. Always verify against the latest manufacturer documentation at felicitysolar.com before system design, procurement, or installation. Compliance with local regulations, grid codes (DEWA, ADDC, SEWA) and utility requirements in UAE is the responsibility of the system designer/installer.

