

Felicity D2 Series

Introducing the Felicity Solar D2 Series, a cutting-edge accessory designed to enhance your solar energy solutions. Featuring a 50W monocrystalline solar module and a high-capacity 230Wh lithium battery, this product ensures reliable and efficient lighting with a luminous flux of 4200lm.

Models Covered: D2-30W/P, D2-40W/P, D2-50W/P, D2-60W/P, D2-80W/P, D2-100W/S, D2-120W/S

Manufacturer: Shenzhen Felicity Solar Technology Co., Ltd.

Application: The D2 Series is perfect for street lighting, garden illumination, and other outdoor applications where efficient and sustainable lighting is required.

- ALL-IN-ONE ESS
- BUILT-IN 230WH
- INTEGRATED DESIGN AND SOURCE
- HIGH EFFICIENCY SOLAR PANEL

Technical Specifications

Technical Specifications						
Parameter	D2-30W/P	D2-40W/P	D2-50W/P	D2-60W/P	D2-80W/P	D2-100W/P
Electrical Characteristics						
Solar module	50W (Mono)	60W (Mono)	80W (Mono)	90W (Mono)	90W (Mono)	100W (Mono)
High capacity lithium battery	Built-in 230Wh	Built-in 288Wh	Built-in 384Wh	Built-in 480Wh	Built-in 576Wh	Built-in 672Wh
Luminous flux (All light pattern)	4200lm	4600lm	8100lm	9100lm	10500lm	18000lm
Working mode	Intelligent induction, energy-saving					
Solar panel charge time	6-8 hours by sunlight					
Working	Timing/shift pattern					
Color temperature	6500K					
Mechanical Data						
Installation angle	75° x 140°					
Light pole diameter	76mm					
Ingress Protection	IP65					
Product dimensions	963*367*45mm	1078*367*45mm	1078*367*45mm	1078*367*45mm	1078*367*45mm	1078*367*45mm
Product Gross weight	12.5kg	15.5kg	22.2kg	26.3kg	30.5kg	33.5kg
Operating Conditions						
Operating humidity	N/A					
Charge temperature	0°C-45°C					

Parameter	D2-30W/P	D2-40W/P	D2-50W/P	D2-60W/P	D2-80W/P	D2-100W/P
Discharge temperature	-20°C-60°C					

Note: Specifications are based on the official Felicity Solar datasheet. Values may be subject to change; always verify against the latest manufacturer documentation.

Key Features

- Integrated design and source
- High capacity LiFePO4 lithium battery
- High efficiency solar panel
- Intelligent controller with 5-8 years lifespan
- 5V USB charging interface

Applications & Use Cases

Typical Applications

- Home solar systems
- Commercial projects
- Industrial applications
- Off-grid systems
- Hybrid systems

Frequently Asked Questions

▼ What are the main performance specifications of the D2 Series?

The D2 Series features a 50W monocrystalline solar module and a built-in 230Wh high-capacity lithium battery. It provides a luminous flux of 4200 lumens with intelligent induction and energy-saving working modes.

▶ Is the D2 Series compatible with different light pole diameters?

▶ What are the physical specifications of the D2 Series?

▶ What are the installation requirements for the D2 Series?

▶ What warranty information is available for the D2 Series?

▶ Does the D2 Series have any certifications or standards?

▶ What are the operating conditions for the D2 Series?

▶ What are the key features and benefits of the D2 Series?

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.

Official Source & Documentation

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

- **Manufacturer Website:** felicitysolar.com
- **Technical Support:** support@felicitysolar.com
- **Sales Inquiries:** sales@felicitysolar.me

Disclaimer: All specifications and technical data presented on this page are based on the official Shenzhen Felicity Solar Technology Co., Ltd. datasheet. Specifications are subject to change without notice. Always verify against the latest manufacturer documentation before system design, procurement, or installation.

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