

Felicity FLA12100 FLA12200 FLA12300

Explore the advanced Felicity Solar FLA12100, FLA12200, and FLA12300 batteries, designed with cutting-edge LiFePO4 technology. Offering a nominal energy of 1.28kWh and a voltage of 12.8V, these batteries ensure efficient and dependable energy storage solutions.

Models Covered: FLA12100, FLA12200, FLA12300

Manufacturer: Guangzhou Felicity Solar Technology Co., Ltd.

Application: Ideal for solar energy systems, backup power, and off-grid applications, providing consistent and long-lasting performance.

LITHIUM BATTERY

2V

Technical Specifications

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Parameter	FLA12100	FLA12200	FLA12300
Battery Module			
Battery Type	LiFePO4		
Nominal Energy	1.28kWh	2.56kWh	3.75kWh
Nominal Voltage	12.8V		
Operating Voltage	11.2V-14.4V		
Recommend Charge/Discharge Current	<100A		
Recommend Charge/Discharge Power	≤1,250W	≤1,500W	≤1,875W
Maximum Charge/Discharge Current (15s)	150A	200A	200A
Maximum Charge/Discharge Power (15s)	1,875W	2,500W	2,500W
Scalability	Max. 16 pcs in Parallel (20.48kWh)	Max. 16 pcs in Parallel (40.96kWh)	Max. 16 pcs in Parallel (60kWh)
Depth of Discharge (DOD)	>99%		
Communication	RS485/CAN		
Protection Degree	IP21		
Cycle Life	≥6,000 Cycles		
Charging Temperature Range	0°C~+55°C		
Discharging Temperature Range	-20°C~+55°C		
Display Type	LED		
Installation	Floor-Mounted		
Protection	Built-in smart BMS, Fuse		
Product Weight	10KG	15KG	26KG
Package Weight	12KG	18KG	29KG
Product Dimension	295X201X199MM	328X248X199MM	379X241X286MM
Package Dimension	357X263X261MM	391X310X257MM	443X303X344MM

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

Scalable expansion up to 16 pcs in parallel.

Flexible Installation: Floor-Mounted.

LiFePO4: Higher safe performance and longer cycle life.

Multiple Protection with built-in smart BMS, and fuse.

Compatible with leading inverter brands.

Up to 5-year long warranty.

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 FLA12100, FLA12200, and FLA12300 batteries?

These batteries are LiFePO4 type with a nominal energy of 1.28kWh and a nominal voltage of 12.8V. They offer a high depth of discharge of over 99% and a cycle life of at least 6,000 cycles, ensuring long-lasting efficiency.

► Are these batteries compatible with other systems?

► What are the physical specifications of these batteries?

► What are the installation requirements for these batteries?

► What warranty is offered for these batteries?

► What certifications do these batteries have?

► What are the operating conditions for these batteries?

► What are the key features and benefits of these batteries?

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 **Guangzhou 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 Guangzhou 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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