

Felicity FLA48100-FLA48200

Explore the advanced Felicity Solar FLA48100-FLA48200 batteries, designed with cutting-edge LiFePO4 technology. Offering a nominal energy of 5.12kWh and a nominal voltage of 51.2V, these batteries ensure efficient and reliable energy storage for various applications.

Models Covered: FLA48100, FLA48200

Manufacturer: Guangzhou Felicity Solar Technology Co., Ltd.

Application: Ideal for residential solar systems, commercial energy storage, and backup power solutions, providing consistent and long-lasting performance.

LITHIUM BATTERY

6V

Technical Specifications

Technical Specifications		
Parameter	FLA48100	FLA48200
Battery Module		
Battery Type	LiFePO4	
Nominal Energy	5.12kWh	10kWh
Nominal Voltage	51.2V	
Operating Voltage	44.8-57.6V	
Recommend Charge/Discharge Current	<100A	<120A
Recommend Charge/Discharge Power	≤5,000W	≤6,000W
Maximum Charge/Discharge Current (15s)	150A	
Maximum Charge/Discharge Power (15s)	7,500W	
Scalability	Max. 15 pcs in Parallel (76.8kWh)	Max. 15 pcs in Parallel (150kWh)
Depth of Discharge (DOD)	≥95%	
Communication	RS485/CAN	
Protection Degree	IP21	
Cycle Life	≥6000 Cycles (25°C±2°C, 0.5C, 90%DOD, 70%EOL)	
Charging Temperature Range	0°C~+55°C	
Discharging Temperature Range	-20°C~+55°C	
Display Type	LCD+LED	
Installation	Wall-Mounted / Floor-Mounted	
Protection	Built-in smart BMS, Breaker, Fuse	
Warranty Period	7 Years	
Certification	UN38.3, CE-EMC, IEC 62619	UN38.3, CE-EMC, IEC 62619, CB
Product Weight	48KG	68KG
Package Weight	55KG	88KG
Product Dimension	663X400X178MM	735X433X188MM
Package Dimension	785X522X262MM	849X550X362MM

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

Built-in fire protection system

Scalable expansion up to 15 pcs in parallel

Built-in WiFi for remote monitoring

Higher safe performance and longer cycle life

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

Compatible with leading inverter brands

Up to 7-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 FLA48100-FLA48200 battery?

The FLA48100-FLA48200 battery features a nominal energy of 5.12kWh and a nominal voltage of 51.2V. It supports a recommended charge/discharge current of less than 100A and a power capacity of up to 5,000W.

► Is the FLA48100-FLA48200 battery compatible with other systems?

► What are the physical specifications of the FLA48100-FLA48200 battery?

► What are the installation requirements for the FLA48100-FLA48200 battery?

► What warranty is offered with the FLA48100-FLA48200 battery?

► What certifications does the FLA48100-FLA48200 battery have?

► What are the operating conditions for the FLA48100-FLA48200 battery?

► What are the key features and benefits of the FLA48100-FLA48200 battery?

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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