

Felicity FLA48500

Introducing the Felicity Solar FLA48500, a high-performance LiFePO4 battery designed to meet your energy storage needs. With a nominal energy capacity of 25kWh and a nominal voltage of 51.2V, this battery ensures reliable and efficient power for various applications.

Models Covered: FLA48500

Manufacturer: Guangzhou Felicity Solar Technology Co., Ltd.

Application: The FLA48500 is perfect for residential solar systems, commercial energy storage, and backup power solutions, providing consistent and sustainable energy.

LITHIUM BATTERY

6V

Technical Specifications

Technical Specifications	
Parameter	Value
Battery Specifications	
Battery Type	LiFePO4
Nominal Energy	25kWh
Nominal Voltage	51.2V
Operating Voltage	44.8-57.6V
Recommend Charge/Discharge Current	≤200A
Recommend Charge/Discharge Power	≤10000W
Maximum Charge/Discharge Current (15s)	300A
Maximum Charge/Discharge Power (15s)	15000W
Depth of Discharge (DOD)	≥95%
Scalability	Max. 15 pcs in Parallel (375kWh)
Communication	RS485/CAN
Protection Degree	IP21
Cycle Life	≥6,000 Cycles
Charging Temperature Range	0°C-55°C
Discharging Temperature Range	-20°C-60°C
Display	LCD+LED
Installation Style	Floor-Mounted
Protection	Built-in Smart BMS, Breaker, Fuse
Product Weight	218KG
Package Weight	248KG
Product Dimension	718X880X990MM
Package Dimension	825X498X1262MM

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 375kWh in parallel.

Flexible Installation: floor-mounted.

LiFePO4: 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 FLA48500 battery?

The FLA48500 battery features a nominal energy of 25kWh and a nominal voltage of 51.2V. It supports a recommended charge/discharge current of up to 200A and a power of up to 10,000W, ensuring efficient energy storage and delivery.

► Is the FLA48500 battery compatible with other systems?

► What are the physical specifications of the FLA48500 battery?

► What are the installation requirements for the FLA48500 battery?

► What warranty is offered with the FLA48500 battery?

► What certifications does the FLA48500 battery have?

► What are the operating conditions for the FLA48500 battery?

► What are the key features and benefits of the FLA48500 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:** sales@felicitysolar.me
- **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.

Last Updated: February 2026 | **Document Version:** 1.0 | **Data Source:** Felicity Solar Official | **Published by:** Felicity Solar UAE (felicitysolar.me)