

Felicity FLA48300

Introducing the Felicity Solar FLA48300, a high-performance LiFePO4 battery designed to meet your energy storage needs. With a nominal energy of 15kWh and a capacity of 300Ah, this battery ensures efficient and reliable power for various applications.

Models Covered: FLA48300

Manufacturer: Guangzhou Felicity Solar Technology Co., Ltd.

Application: The FLA48300 is perfect for residential solar systems, commercial energy storage, and backup power solutions, providing consistent and long-lasting energy.

LITHIUM BATTERY

300AH

6V

Technical Specifications

Technical Specifications		
Parameter	Value	
Battery Module		
Battery Type	LiFePO4	
Nominal Energy	15kWh	
Nominal Capacity	300Ah	
Nominal Voltage	51.2V	
Operating Voltage	44.8-57.6V	
Recommend Charge/Discharge Current	120A	
Max. Continuous Charge/Discharge Current	150A	
Peak Charge/Discharge Current (15s)	200A	
Scalability	Max. 15 pcs in Parallel (225kWh)	
Depth of Discharge (DOD)	>95%	
Display Type	LCD	
Protection Degree	IP21	
Working Temperature Range	Charge: 0°C-55°C	Discharge: -20°C-55°C
Storage Temperature Range	0°C-+35°C	
Humidity	5%-95%	
Altitude	≤2000m	
Communication	RS485/CAN	
Cycle Life	≥6000 Cycles (25°C±2°C, 0.5C/0.5C, 90%DOD, 70%EOL)	
Installation	Wall-Mounted / Floor-Mounted	
Protection	Built-in Smart BMS, Breaker, Fuse	
Product Weight	135KG	
Package Weight	160KG	
Product Dimension	480X1100X300MM	

Parameter	Value
Package Dimension	1150X635X498MM

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

LiFePO4: higher safe performance and longer cycle life.

Multiple protection with built-in smart BMS, breaker and fuse.

Flexible Installation: wall-mounted or floor-mounted.

Compatible with leading inverter brands.

Scalable expansion up to 15 pcs in parallel.

Built-in WiFi for remote monitor the battery pack data.

Equipped with an aerosol fire extinguishing system.

Easily replace the battery fuse when it blows.

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 FLA48300 battery?

The FLA48300 battery is a LiFePO4 type with a nominal energy of 15kWh and a nominal capacity of 300Ah. It operates at a nominal voltage of 51.2V, with an operating voltage range of 44.8-57.6V.

► Is the FLA48300 battery compatible with other systems?

► What are the physical specifications of the FLA48300 battery?

► What are the installation requirements for the FLA48300 battery?

► What warranty is offered with the FLA48300 battery?

► What certifications does the FLA48300 battery have?

► What are the operating conditions for the FLA48300 battery?

► What are the key features and benefits of the FLA48300 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)