

Felicity FLA48500TG2

Introducing the Felicity Solar FLA48500TG2, 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: FLA48500TG2

Manufacturer: Guangzhou Felicity Solar Technology Co., Ltd.

Application: The FLA48500TG2 is perfect for residential solar systems, commercial energy storage, and backup power solutions, providing consistent and sustainable energy.

LITHIUM BATTERY

6V

MAX. 15 UNITS IN PARALLEL.

Technical Specifications

Technical Specifications	
Parameter	Value
Battery Module	
Battery Type	LiFePO4
Nominal Energy	25kWh
Nominal Voltage	51.2V
Operating Voltage	44.8-57.6V
Max. Continuous Charge/Discharge Current	250A
Peak Charge/Discharge Current (15s)	500A
Max. Charge/Discharge Power	12,500W
Scalability	Max. 15 pcs in Parallel (375kWh)
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	Floor Mounted
Protection	Built-in Smart BMS, Breaker, Fuse
Product Weight	186.5KG
Package Weight	219.5KG
Product Dimension	570X500X980MM
Package Dimension	1135X690X465MM

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.

Build-in WiFi / Bluetooth for real-time monitoring.

Equipped with aerosol fire extinguishing system.

Max. 15 units in parallel.

External fuse design for easy replacement.

Compatible with leading inverter brands.

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 FLA48500TG2 battery?

The FLA48500TG2 battery features a nominal energy of 25kWh and a nominal voltage of 51.2V. It supports a maximum continuous charge/discharge current of 250A and a peak current of 500A for 15 seconds.

► Is the FLA48500TG2 battery compatible with other systems?

► What are the physical specifications of the FLA48500TG2 battery?

► What are the installation requirements for the FLA48500TG2 battery?

► What warranty is offered with the FLA48500TG2 battery?

► What certifications does the FLA48500TG2 battery have?

► What are the operating conditions for the FLA48500TG2 battery?

► What are the key features and benefits of the FLA48500TG2 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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