

Felicity FLA Series

The Felicity Solar FLA Series battery is a cutting-edge LiFePO4 solution designed to meet your energy storage needs. With a nominal energy of 2.56kWh and a voltage of 25.6V, this battery ensures reliable performance and safety, backed by UN38.3 certification.

Models Covered: FLA24100, FLA24200, FLA24250, FLA24300, FLA24500

Manufacturer: Guangzhou Felicity Solar Technology Co., Ltd.

Application: Ideal for solar energy systems, backup power solutions, and off-grid applications, the FLA Series battery provides efficient and long-lasting energy storage.

LITHIUM BATTERY

8V

Technical Specifications

Technical Specifications					
Parameter	FLA24100	FLA24200	FLA24250	FLA24300	FLA24500
Battery Specifications					
Battery Type	LiFePO4				
Nominal Energy	2.56kWh	5kWh	6.4kWh	7.5kWh	12.5kWh
Nominal Voltage	25.6V				
Operating Voltage	22.4-28.8V				
Recommend Charge/Discharge Current	≤100A	≤120A	≤150A	≤150A	≤200A
Maximum Charge/Discharge Current (15s)	150A	150A	200A	200A	300A
Scalability	Max. 15 pcs in Parallel(38.4kWh)	Max. 15 pcs in Parallel(75kWh)	Max. 15 pcs in Parallel(96kWh)	Max. 15 pcs in Parallel(112.5kWh)	Max. 15 pcs in Parallel(187.5kWh)
Depth of Discharge (DOD)	≥95%				
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	LCD+LED				
Installation	Wall-Mounted / Floor-Mounted				
Protection	Built-in Smart BMS, Breaker, Fuse				
Warranty Period	7 Years				
Certifications					

Parameter	FLA24100	FLA24200	FLA24250	FLA24300	FLA24500
Certification	UN38.3	UN38.3	UN38.3	UN38.3, CE-EMC, IEC 62619	UN38.3
Mechanical Data					
Product Weight	27KG	39KG	52.5KG	71KG	93KG
Package Weight	30KG	44KG	57KG	90KG	113KG
Product Dimension	454X380X154MM	482X433X194MM	527X400X280MM	700X430X253MM	783X405X274MM
Package Dimension	543X472X232MM	600X555X282MM	646X522X358MM	780X550X427MM	900X525X400MM

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 15 pcs in parallel.
- Built-in WiFi for remote monitor the battery pack data.
- Flexible Installation: wall-mounted or 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 FLA Series battery?

The FLA Series battery features a nominal energy of 2.56kWh and a nominal voltage of 25.6V. It supports a depth of discharge (DOD) of $\geq 95\%$ and has a cycle life of $\geq 6,000$ cycles, ensuring high efficiency and longevity.

► Is the FLA Series battery compatible with other systems?

► What are the physical specifications of the FLA Series battery?

► What are the installation requirements for the FLA Series battery?

► What warranty is offered with the FLA Series battery?

► What certifications does the FLA Series battery have?

► What are the operating conditions for the FLA Series battery?

► What are the key features and benefits of the FLA Series 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.

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