

## Felicity FLA48350TG2

Introducing the Felicity Solar FLA48350TG2, a cutting-edge LiFePO4 battery designed for optimal energy storage solutions. With a nominal energy capacity of 17.5kWh and a nominal voltage of 51.2V, this battery ensures efficient and reliable performance for various applications.

**Models Covered:** FLA48350TG2

**Manufacturer:** Guangzhou Felicity Solar Technology Co., Ltd.

**Application:** The FLA48350TG2 is ideal for residential solar systems, commercial energy storage, and backup power solutions, providing consistent and long-lasting energy supply.

LITHIUM BATTERY

6V

# Technical Specifications

| Technical Specifications                 |                                               |
|------------------------------------------|-----------------------------------------------|
| Parameter                                | Value                                         |
| Battery Specifications                   |                                               |
| Battery Type                             | LiFePO4                                       |
| Nominal Energy                           | 17.5kWh                                       |
| Nominal Voltage                          | 51.2V                                         |
| Operating Voltage                        | 44.8-57.6V                                    |
| Max. Continuous Charge/Discharge Current | 175A                                          |
| Peak Charge/Discharge Current (15s)      | 300A                                          |
| Max. Charge/Discharge Power              | 8,750W                                        |
| Scalability                              | Max. 15 pcs in Parallel (262.5kWh)            |
| Depth of Discharge (DOD)                 | ≥95%                                          |
| Communication                            | RS485/CAN                                     |
| Protection Degree                        | IP21                                          |
| Cycle Life                               | ≥8000 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             |
| Warranty Period                          | 7 Years                                       |
| Certification                            | UN38.3                                        |
| Product Weight                           | 121.5KG                                       |
| Package Weight                           | 143.5KG                                       |
| Product Dimension                        | 435X880X247MM                                 |
| Package Dimension                        | 960X555X450MM                                 |

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**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

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LiFePO4: higher safe performance and longer cycle life.

Built-in WiFi /bluetooth for real-time monitoring.

Enhanced safety with aerosol fire extinguishing system.

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

Scalable expansion up to 15 pcs in parallel.

External battery fuse design for easy replacement.

Compatible with leading inverter brands.

## Applications & Use Cases

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### 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 FLA48350TG2 battery?

The FLA48350TG2 battery features a nominal energy of 17.5kWh and a nominal voltage of 51.2V. It supports a maximum continuous charge/discharge current of 175A and a peak charge/discharge current of 300A for 15 seconds.

► Is the FLA48350TG2 battery compatible with other systems?

► What are the physical specifications of the FLA48350TG2 battery?

► What are the installation requirements for the FLA48350TG2 battery?

► What warranty is offered with the FLA48350TG2 battery?

► What certifications does the FLA48350TG2 battery have?

► What are the operating conditions for the FLA48350TG2 battery?

► What are the key features and benefits of the FLA48350TG2 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](http://felicitysolar.com)
- **Technical Support:** [support@felicitysolar.com](mailto:support@felicitysolar.com)
- **Sales Inquiries:** [sales@felicitysolar.me](mailto: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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