

Felicity LPBF48300/LPBF48300-II

Introducing the Felicity Solar LPBF48300/LPBF48300-II, a high-performance LiFePO4 battery designed for optimal energy storage. With a nominal energy capacity of 15kWh and a voltage of 51.2V, this battery is engineered to meet the highest standards, boasting certifications like UN38.3, CE-EMC, and IEC 62619.

Models Covered: LPBF48300, LPBF48300-II

Manufacturer: Guangzhou Felicity Solar Technology Co., Ltd.

Application: Ideal for residential and commercial energy storage systems, the LPBF48300/LPBF48300-II is perfect for solar power integration, backup power solutions, and off-grid applications.

LITHIUM BATTERY

6V

Technical Specifications

Technical Specifications		
Parameter	LPBF48300	LPBF48300-II
Battery Specifications		
Battery Type	LiFePO4	
Nominal Energy	15kWh	
Nominal Voltage	51.2V	
Operating Voltage	48-57.6V	
Recommend Charge/Discharge Current	≤120A	
Recommend Charge/Discharge Power	≤6,000W	
Maximum Charge/Discharge Current (15s)	200A	
Maximum Charge/Discharge Power (15s)	10,000W	
Depth of Discharge (DOD)	≥95%	
Scalability	Max. 6 pcs in Parallel (90kWh)	
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	LED	
Installation Style	Floor-Mounted	
Protection	Built-in Smart BMS, Breaker, Fuse	
Product Weight	154KG	155.5KG
Package Weight	177KG	178.5KG
Product Dimension	615x530x955MM	
Package Dimension	718x450x112MM	
Certifications		
Certification	UN38.3, CE-EMC, IEC 62619	UN38.3

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

High-quality lithium iron phosphate battery.

Big capacity with small volume for household.

≥6000 times deep cycle charge and discharge.

High class of safety with built-in BMS protection.

Scalable expansion up to 6 pcs in parallel.

Up to 5-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 LPBF48300/LPBF48300-II battery?

The LPBF48300/LPBF48300-II battery features a nominal energy of 15kWh and a nominal voltage of 51.2V. It supports a recommended charge/discharge current of up to 120A and a power of up to 6,000W, ensuring efficient energy storage and usage.

► Is the LPBF48300/LPBF48300-II battery compatible with other systems?

► What are the physical specifications of the LPBF48300/LPBF48300-II battery?

► What are the installation requirements for the LPBF48300/LPBF48300-II battery?

► What warranty does the LPBF48300/LPBF48300-II battery come with?

► What certifications does the LPBF48300/LPBF48300-II battery have?

► What are the operating conditions for the LPBF48300/LPBF48300-II battery?

► What are the key features and benefits of the LPBF48300/LPBF48300-II 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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