



Low Voltage Battery

LB-10D-USG2

Description

The LB-10D-USG2 is a type of deep cycle high capacity LFP battery with improved safety, long lifespan, and optimized user experience.

It is designed with a NEMA 4X rating for more flexible and easier installation, with wall-mounted and floor-standing installation options.

It has superior performance with up to 10.24 kWh for a single unit and a maximum of 102.4 kWh in parallel.

Features

01 Support wall-mounted or floor-standing installation

03 A maximum capacity of 102.4 kWh in parallel

02 NEMA 4X design suitable for indoor/outdoor installation

04 Quick connector design saves installation time

Technical Specifications

Model	LB-10D-USG2
System Data	
Battery type	LiFePO ₄
Rated capacity	200 Ah
Total energy	10.24 kWh
Rated voltage	51.2 V
Voltage range	44.8 V-57.6 V
Rated charging current	0.5C, 100 A
Max. charging current	150 A, 10 mins
Rated discharging current	0.5C, 100 A
Max. discharging current	150 A, 10 mins
Rated charging power	5.12 kW
Max. charging/discharging power	7.68 kW/7.68 kW, 10 mins
Peak discharging current	200 A, 15s
Communication	CAN
Recommended depth of discharge (DOD)	90%
Max. parallel quantity	Max. 10 sets in parallel, 102.4 kWh ⁽¹⁾
Protection	
Overvoltage and undervoltage protection	Integrated
Overcurrent protection	Integrated
Overtemperature and undertemperature protection	Integrated
DC breaker	Integrated
General	
Dimensions (W × H × D)	21.85 × 36.54 × 8.27 inch (555 × 928 × 210 mm)
Weight	227 lbs (103 kg)
Charging temperature	32°F to 131°F (0°C to +55°C)
Discharging temperature	-4°F to 131°F (-20°C to +55°C)
Protection degree	NEMA 4X
Cooling	Natural convection
Altitude	≤6562 ft (2000 m)
Cycle life (77°F/25°C, 0.5C)	≥6000 Cycles
Certification	UN 38.3, CEC, UL 1973, UL 9540A, UL 9540
Warranty	10 Years

(1) For details, please refer to local laws and regulations.