



Low Voltage Battery Datasheet

HBX-10LV-USG1

Description

The HBX-LV series 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 Type 4 rating for more flexible and easier installation, with wall-mounted and floor-standing installation options.

It has superior performance with up to 10 kWh for a single unit and a maximum of 80 kWh in parallel, which can meet the residential electricity demand.

Features

01 CATL cells inside

02 A maximum capacity of 80 kWh in parallel

03 Suitable for indoor/outdoor installation

04 LFP with improved safety design

05 Support wall-mounted or floor-standing installation

06 Quick connector design saves installation time

Technical Specifications

Model	HBX-10LV-USG1
System Data	
Battery type	LiFePO ₄
Rated capacity	200 Ah
Usable energy	10 kWh
Rated voltage	51.2 V
Voltage range	44.8 V-58.4 V
Rated charging current	0.6C, 120 A
Max. continuous charging current	0.6C, 120 A
Rated discharging current	0.6C, 120 A
Max. continuous discharging current	0.6C, 120 A
Max. charge/discharge power	6 kW/6 kW
Peak discharge current/power	160 A/8 kW, 1 min
Communication interface	CAN, RS485
Recommended depth of discharge (DOD)	90%
Max. parallel quantity	Max. 8 sets in parallel, 80 kWh
Protection	
Overvoltage and undervoltage protection	Integrated
Overcurrent protection	Integrated
Overtemperature and undertemperature protection	Integrated
DC breaker	Integrated
General	
Dimension (W × H × D)	21.7 × 39.4 × 6.5 inch (550 × 1000 × 165 mm)
Weight	214 lbs (97 kg)
Installation environment	Indoor/Outdoor
Charging temperature	23°F to 131°F (-5°C to +55°C)
Discharging temperature	5°F to 131°F (-15°C to +55°C)
Protection degree	Type 4/IP67
Cooling	Natural convection
Altitude	≤6562 ft (2000 m)
Cycle life (77°F/25°C, 0.6C)	≥6000 Cycles
Certification	UN 38.3, UL 1973, UL 9540A, UL 9540 ⁽¹⁾
Warranty	10 Years

(1) UL 9540 will be coming soon.