



Battery Box Datasheet

HBX-10.2LV-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 an IP65 rating for more flexible and easier installation, with wall-mounted and floor-standing installation options.

It has superior performance with up to 10.2 kWh for a single unit and a maximum of 163.84 kWh in parallel, which can meet the residential electricity demand.

Features

01 Powered by CATL

02 A maximum capacity of 163.84 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-10.2LV-USG1
System Data	
Battery Type	LiFePO4
Rated Capacity	200 Ah
Usable Energy	10.24 kWh
Rated Voltage	51.2 V
Voltage Range	44.8 V-58.4 V
Rated Charging Current	0.6C, 120 A
Max. Charging Continuous Current	0.6C, 120 A
Rated Discharging Current	0.6C, 120 A
Max. Discharging Continuous Current	0.6C, 120 A
Max. Charge/Discharge Power	6.14 kW/6.14 kW
Peak Discharge Current/Power	160 A/8.19 kW, 1 min
Communication Interface	CAN, RS485
Recommended Depth of Discharge (DOD)	90%
Max. Parallel Quantity	Max. 16 Sets in Parallel, 163.84 kWh
Protection	
Overvoltage and Undervoltage Protection	Integrated
Over Current Protection	Integrated
Overtemperature and Undertemperature Protection	Integrated
DC Breaker	Integrated
General	
Dimension (W × H × D)	21.7 × 31.2 × 6.5 inch (550 × 867 × 165 mm)
Weight	207 lbs (94kg)
Installation Environment	Indoor/Outdoor
Charging Temperature	23 to131°F (-5 to +55°C)
Discharging Temperature	5 to131°F (-15 to +55°C)
Protection Degree	NEMA Type4
Cooling	Natural Convection
Altitude	≤2000 m
Cycle Life (25°C, 0.5C)	≥6000 Cycles
Certification	UN 38.3, UL 1973, UL 9540A
Warranty	10 years