



Low Voltage Battery

LB-5D-G2

Description

The LB-5D-G2 is a type of deep cycle and high capacity LFP battery with improved safety, long lifespan, and optimized user experience.

It is flexible to install with wall mounting and floor standing options.

It has superior performance with a capacity of 5.12 kWh for a single unit and a maximum of 81.92 kWh for 16 batteries in parallel, which can meet the residential electricity demand.

Features

- 01 LFP with improved safety design
- 02 A recommended depth of discharge (DOD) of 90% allows for more usable energy
- 03 Quick connector design for easy installation
- 04 Support wall mounting and floor standing installation
- 05 Flexible capacity options from 5.12 kWh to 81.92 kWh
- 06 Intelligent BMS with multiple protection functions

Technical Specifications

Model	LB-5D-G2
System Data	
Battery type	LiFePO ₄
Rated capacity (Ah)	100
Number of modules	1
Total energy (kWh)	5.12
Rated voltage (V)	51.2
Voltage range (V)	44.8-58.4
Rated charging/discharging current	0.5C
Max. continuous charging/discharging current (A)	50
Max. charge/discharge power (kW)	2.56
Peak charge/discharge power (kW)	3.84 (10s)
Communication	CAN
Recommended depth of discharge (DOD)	90%
Max. parallel	16
Protection	
Overvoltage and undervoltage protection	Integrated
Overcurrent protection	Integrated
Overtemperature and undertemperature protection	Integrated
General	
Dimensions (W × H × D [mm]) ⁽¹⁾	640 × 380 × 145
Weight (kg) ⁽¹⁾	45
Installation environment	Indoor
Mounting	Wall mounting/Floor standing
Charging temperature (°C)	0 to +50
Discharging temperature (°C)	-20 to +50
Protection degree	IP20
Cooling	Natural convection
Altitude (m)	≤2000
Cycle life (25°C, 0.5C)	6000 Cycles, @90% DOD, 70% EOL
Certification	IEC 62619, UN 38.3

(1) The actual dimensions and weight may differ. For details, please contact Hoymiles sales.