Low-Voltage Residential Battery

IP21 Lithium Battery: BLF-B51100 - 5.12kWh
BLF-B51150 - 7.68kWh

The BLF-B51100/B51150 Lithium battery system is ideal for new installation of household energy storage. With high energy density and wall-mounted solution, BLF-B51100/B51150 battery system is space-saving for indoor installation. To serve increasing load requirement, the flexible expansion can fit your energy demand of today and tomorrow.

Features

- Intelligent BMS with multiple protections
- Double and robust mechanical protection
- IP21 supporting indoor installation
- Long cycle life and safest prismatic LFP batteries
- Reliable performance: high efficiency and 90% DOD
- Easy and quick installation and expansion with modular design, up to 5 units in parallel



Specifications

Model	BLF-B51100	BLF-B51150
Cell Type	LFP	
Nominal Voltage	51.2V	
Operating Voltage Range	43.2V~57.6V	
Nominal Capacity	100Ah	150Ah
Nominal Energy	5.12kWh	
Max.Power	Charge:4.1kw; Discharge:5.12kw	Charge:5.12kW; Discharge: 5.12kW
Depth of Discharge	90%	100%, recommending 90%
Usable Energy	5.12kWh	7.68kWh
Dimension(W*H*D)	335*622*135.5 mm	585*364*165.5 mm
Weight	42.6kg	63kg
Max. Charge/Discharge Current	100A/100A	
Operating Temperature	Charge: 0°C~50°C; Discharge: -10°C~55°C	
Operating Humidity	5%~95%	
Storage Temperature	-20°C~60°C	
Operating Attitude	Below 4000 m	
Communication	RS485/CAN	
Scalability	Up to 5 Modules/25kWh	
Cooling Type	Natural	
Ingress Protection	IP21	
Installation Location	Wall-mounted	
Cycle Life	6000 Cycles[1]	
Authentication Level	IEC61000/UN38.3	

[1]: Test conditions: 0.5C Charge/0.5C Discharge, @25℃, 90% DOD, 70% EOL.