



Low-Voltage Residential Battery

IP21 Lithium Battery: BLF-B51100



The BLF-B51100 Lithium battery system is ideal for new installation of household energy storage. With high energy density and wall-mounted solution, BLF-B51100 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



Safe to Use



Long Cycle Life
(4000/6000 Cycles)



Modular
Expansion



Flexible
Integration



Off-Grid Inverter



Monitoring System

Specifications

Model	BLF-B51100
Battery Type	LFP
Nominal Voltage	51.2V
Operating Voltage Range	43.2V~57.6V
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Max.Power	Charge:4.1kw;Discharge:5.12kw
Depth of Discharge	90%
Usable Energy	4.6kWh
Dimension(W*H*D)	335*622*135.5 mm
Weight	42.6kg
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	4000 Cycles / 6000 Cycles ^[1] (Optional)
Standard Warranty	5 Years/10 Years (Optional)
Authentication Level	IEC61000/UN38.3

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