



Low-Voltage Residential Battery

Lithium Battery System: BLF51-5 51.2V100Ah

The BLF51-5 LV battery system is ideal for new installation of household energy storage. With high energy density and wall-mounted solution, BLF51-5 LV battery system is space-saving for indoor and outdoor 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
- IP65 supporting indoor and outdoor 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
(6000 Cycles)



Modular Expansion



Flexible Integration

Compatible Products



Hybrid Inverter



AC Coupled Inverter



Off-grid Hybrid Inverter



Monitoring System

Specifications

Model	BLF51-5
Battery Type	LFP
Nominal Voltage	51.2V
Operating Voltage Range	43.2V~57.6V
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Depth of Discharge	90%
Usable Energy	4.6kWh
Dimension(W*H*D)	IP21: 415*662*178mm; IP65: 415*685*178mm
Weight	55kg
Max. Charge/Discharge Current	50A/100A
Operating Temperature	Charge: 0°C~50°C; Discharge: -10°C~55°C
Operating Humidity	5%~95%
Storage Temperature	-20°C~60°C
Operating Altitude	Below 4000m
Communication	RS485/CAN
Scalability	Up to 5 Modules/25kWh
Cooling Type	Natural
Ingress Protection	IP21/IP65
Cycle Life	6000 Cycles ^[1]
Standard Warranty	5 Years/10 Years (Optional)
Authentication Level	IEC62619/CE/UN38.3

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