

LOW-VOLTAGE RESIDENTIAL BATTERY

LITHIUM BATTERY SYSTEM: BLF51-5 51.2V100AH G1/G2[1]

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.

[1]: G1 corresponds to IP21, and G2 corresponds to IP65.

Product Benefits

- ✓ Intelligent BMS with multiple protections
- ☔ IP65 supporting indoor and outdoor installation
- 🔔 Reliable performance: high efficiency and 90% DOD
- 🛡️ Double and robust mechanical protection
- 🕒 Long cycle life and safest prismatic LFP batteries
- 🔧 Easy and quick installation and expansion with modular design



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Model	BLF51-5
Cell 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-50 °C
Operating Humidity	5% - 95%
Storage Temperature	-20 °C to +60 °C
Operating Altitude	< 4000m
Communication	RS485 / CAN
Scalability	Up to 5 Modules / 25kWh
Cooling Type	Natural
Ingress Protection	IP21 / IP65
Cycle Life	6000 Cycles[1]
Authentication Level	IEC62619, CE, UN38.3, IEC61000