



## 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 <sup>[1]</sup>               |
| 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.