

# 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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BATTERY

### LITHIUM BATTERY SYSTEM: BLF51-5 51.2V100AH

| 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-55 °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             |

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