

# SP-LV5120-G2 Series / 5.12kWh

## Residential Low Voltage Lithium Battery



Class 9/CE, UN38.3, MSDS, RoSH

**IP65**  
Level

IP65 Level



Quick and simple installation



Advanced BMS management



6000 cycles life  
(DoD 80%)



High-density LiFePO4  
battery



Compatible with mainstream  
inverters

- Long Design Life
- Multiple Protection
- Modular Design
- Scalable & Flexible
- Remote management & maintenance

### Basic Information

|                                     |                                                                                                                                                    |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal Voltage                     | 51.2V DC                                                                                                                                           |
| Voltage Range                       | 44V-58.4V                                                                                                                                          |
| Nominal Capacity                    | 100Ah                                                                                                                                              |
| Rated Capacity                      | 5.12kWh                                                                                                                                            |
| Communication Protocol              | CAN / RS485 / RS232                                                                                                                                |
| Max. Number of Parallel Connections | 15                                                                                                                                                 |
| Cycle Life                          | 6000 cycles (@80% DoD)                                                                                                                             |
| Protection Mechanism                | Temperature Protection/Over-current Protection/Short-circuit Protection<br>Over-charge Protection/Over-discharge Protection/Low-voltage Protection |

### Charging Parameters

|                              |       |
|------------------------------|-------|
| Recommended Charging Current | 50A   |
| Max. Charging Current        | 100A  |
| Recommended Charging Voltage | 58V   |
| Max. Charging Voltage        | 58.4V |

### Discharging Parameters

|                                               |       |
|-----------------------------------------------|-------|
| Recommended Discharging Current               | 50A   |
| Max. Discharging Current                      | 100A  |
| Recommended Battery Discharge Cut-off Voltage | 44V   |
| Battery Cut-off Voltage                       | 43.2V |
| Battery Recovery Voltage                      | 48V   |

### General Parameters

|                     |                           |
|---------------------|---------------------------|
| Dimension           | 600*480*189mm             |
| Gross/Net Weight    | 55kg/52.6kg               |
| Shell Material      | Sheet Metal               |
| Protection Rating   | IP65                      |
| Installation Method | Wall-mounted + Floor type |
| Cell Type           | LiFePO4                   |

### Certification & Safety Standard

|                                  |                            |
|----------------------------------|----------------------------|
| Safety Certification             | CE                         |
| Temperature Safety Certification | UN38.3, Class9, MSDS, RoSH |

### Temperature Parameters

|                         |            |
|-------------------------|------------|
| Discharging Temperature | -20~+65 °C |
| Charging Temperature    | 0~+55 °C   |
| Storage Temperature     | -20~+45 °C |