

## SLPO12-150N(LiFePO<sub>4</sub> 12.8V150AH Battery Normal)

### General Information

SLPO series is a LiFePO<sub>4</sub>(lithium iron phosphate)battery pack for backup power. The battery pack adopts the advanced LiFe-PO<sub>4</sub> battery technology with the advantages of long cycle life, small size, lightweight, safety and environmental protection, and also has strong environmental adaptability. It also has a Blue-tooth function, which checks the detailed status of the battery by installing the APP.

### Application

- § Camper, Caravan and Boat
- § Marine Transport and Fishing
- § Wind Generator and Solar Power Energy Storage

### Key Features

※ **Super long cycle life**

Over 4000 cycles at 80% DOD can be circularly used.

※ **Large charge and discharge current**

The maximum charge and discharge current is up to 1C.

※ **Low self discharge**

<1% per month at 25°C.

※ **Long Life**

10 years design life at 25°C.

※ **Green environmental material**

Eco-friendly and nonpolluting, no acids or no hazardous and noxious substances (including lead, cadmium, mercury).

※ **Can be used Max 4 in series or Max 4 in parallel**

※ **Intelligent Integrated Battery Manage System(BMS)**

Built-in BMS automatically monitors and equalizes internal cells, protects the cells from over-charge, over-discharge, over-temperature, short-circuit, etc, which ensures safety and reliability and prolongs the service life. The data collected by the BMS such as SOC, voltage, current, temperatures and alarms (if any) can be displayed on the Bluetooth APP.

※ **In compliance with standard**

UN/NOT 38.3, CE.

※ **High safety & stable performance**

No explosion and no fire under collision. No risk of leakage.

※ **Completely maintenance-free**

Completely Maintenance-free throughout battery lifetime saves OPEX for the users.



### Specification

|                        |                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------|
| Weight                 | Approx.14Kg                                                                                                       |
| Dimension              | 320(L)*172(W)*230(H) mm                                                                                           |
| Nominal voltage        | 12.8V                                                                                                             |
| Nominal capacity       | 150Ah                                                                                                             |
| Nominal energy         | 1.92Kwh                                                                                                           |
| Service life           | ≥4000 cycles, more than 80% at 0.5C charge and 0.5C discharge at 80% DOD 25°C.                                    |
| Self-discharge         | <1%/M                                                                                                             |
| Charging               | 150A Max                                                                                                          |
| Discharging            | 150A Max                                                                                                          |
| Charging voltage       | 14.4±0.2V                                                                                                         |
| Charging mode          | Step 1: 0.5C charge to 14.4V;<br>Step 2: CV (constant voltage 14.4V) charge till charge current decline to 0.05C. |
| Peak discharge current | 150A                                                                                                              |
| DOD discharge rate     | 100%                                                                                                              |

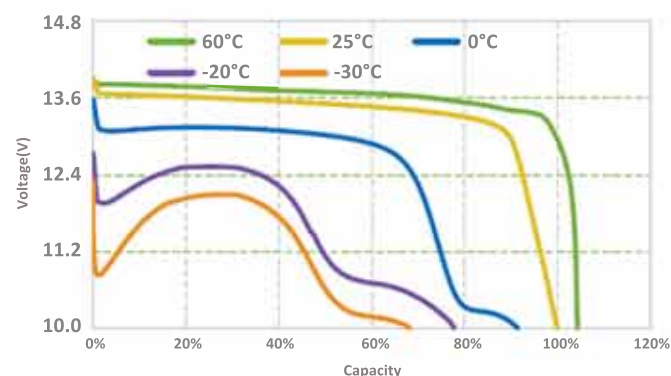
## Specification

|                                        |                                                                                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Charging operating temperature         | 0~45°C                                                                                                                                                                                    |
| Discharge operating temperature        | -20~55°C                                                                                                                                                                                  |
| Storage temperature and humidity range | 1 month: -20~45°C; 3 months: -10~45°C; 6 months: 0~25°C; Humidity: 45%~90% RH<br>The battery should cycle once in three months. Recommended storage temperature is 25±5°C of SOC 50%~60%. |
| Degree of protection                   | IP54 or above                                                                                                                                                                             |
| Installation                           | Battery compartments                                                                                                                                                                      |
| Constant current discharge             | 150A                                                                                                                                                                                      |
| Constant power discharge               | 1920W                                                                                                                                                                                     |
| Constant power discharge (Cell)        | 480W                                                                                                                                                                                      |
| Pack initial internal impedance        | ≤100mΩ (50% SOC, Measure the AC impedance at 1kHz)                                                                                                                                        |

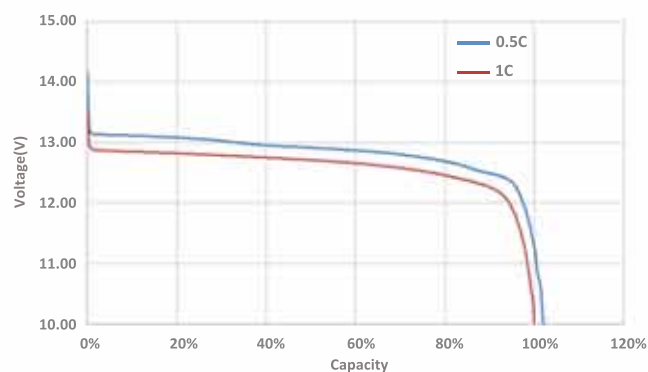
## Dimension



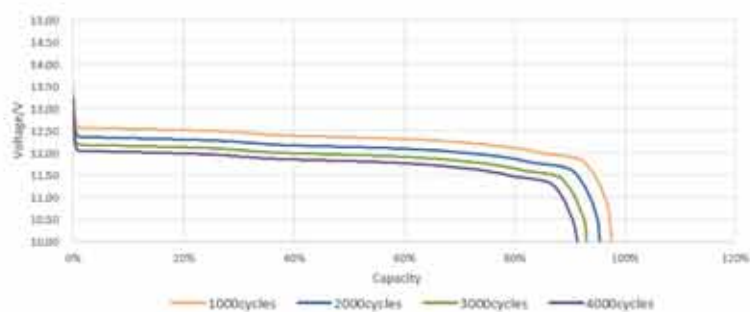
### 0.5C discharge curve at different temperatures (0.5C standard charge)



### Discharge curve at different rates (0.5C standard charge)



### 80% DOD discharge curve after different cycles (0.5C standard charge)



### 0.5C charge and discharge cycle curve

