

# Power

### SLPO12-100N(LiFePO<sub>4</sub> 12.8V100AH Battery Normal)

#### General Information

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

#### Application

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

#### **Key Features**

#### **X Super long cycle life**

Over 6000 cycles at 80%DOD can be circularly used.

#### **\*\* Fast charge capability**

Very fast charging capability up to 50A.

#### **% 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



#### **X Intelligent Integrated Battery Manage System(BMS)**

Built-in BMS automatically protects internal cells from over-charge, over-discharge, over-temperature, short-circuit, etc. Ensure battery safety and reliability. Equalize and balance each cell. Prolong battery life. SOC-DOD-SOH reporting/setting device events, battery parameters, and storage, intelligent monitor, remote measure, remote communication, remote control.

### 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.11.5Kg
Dimensions	320(L)*172(W)*230(H) mm
Nominal voltage	12.8V
Nominal capacity	100Ah
Nominal energy	1.28Kwh
Service life	≥6000 cycles, more than 80% at 0.5C charge and 0.5C discharge at 80% DOD 25°C.
Self-discharge	<1%/M
Charging	100A Max
Discharging	100A Max
Charging voltage	14.4±0.2V
Charging mode	Step 1: 0.5C charge to 14.4V;
	Step 2: CV (constant voltage 14.4V) charge till charge current decline to 0.05C.
Peak discharge current	100A
DOD discharge rate	100%



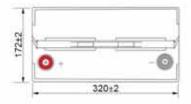
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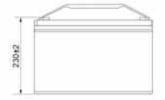
#### Specification

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
	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	100A
Constant power discharge	1000W
Constant power discharge (Cell)	320W
Pack initial internal impedance	≤100mΩ (50% SOC, Measure the AC impedance at 1kHz)

#### Dimension

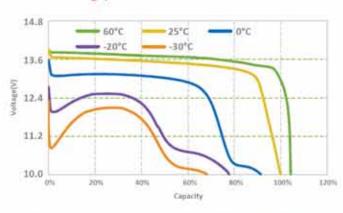




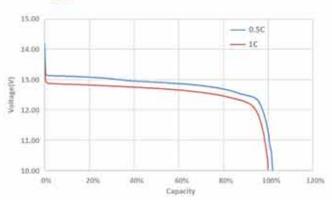




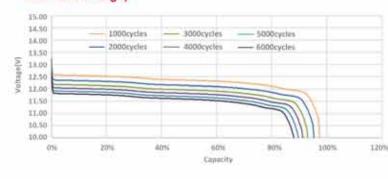
### 0.5C discharge curve at different temperatures (0.5C standard charge)



## 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

