

SLPO12-150N(LiFePO₄ 12.8V150AH Battery Normal)

General Information

SLPO series is a LiFePO₄(lithium iron phosphate)battery pack for backup power. The battery pack adopts the advanced LiFe-PO₄ 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.



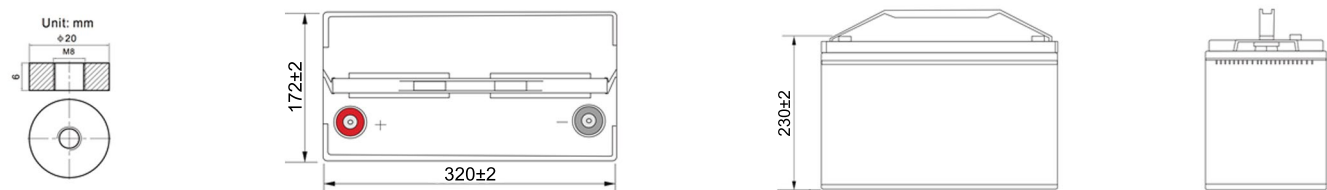
Specification

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; Step 2: CV (constant voltage 14.4V) charge till charge current decline to 0.05C.
Peak discharge current	150A
DOD discharge rate	100%

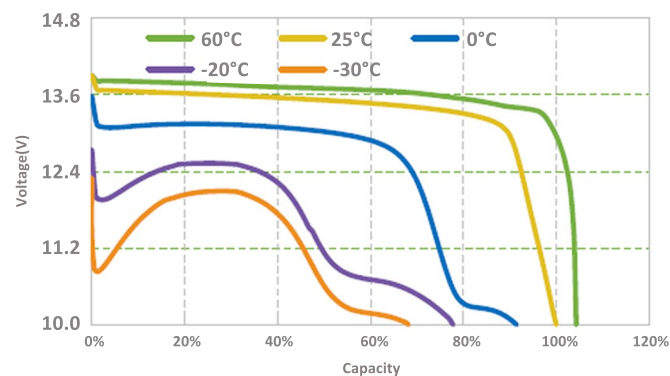
Specification

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 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)

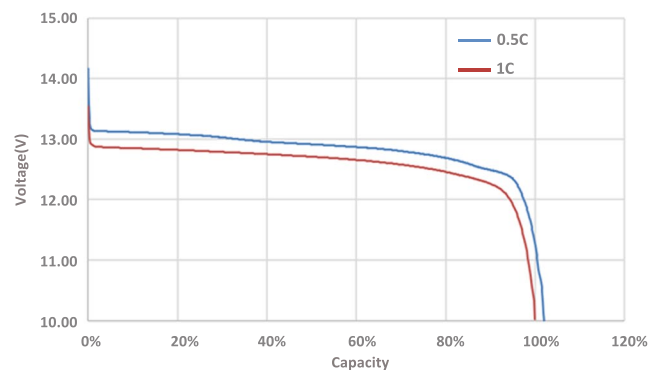
Dimension



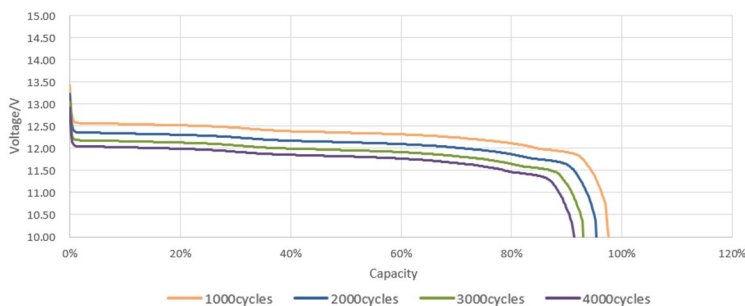
0.5C discharge curve at different temperatures (0.5C standard charge)



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

