

12.8V100Ah BT

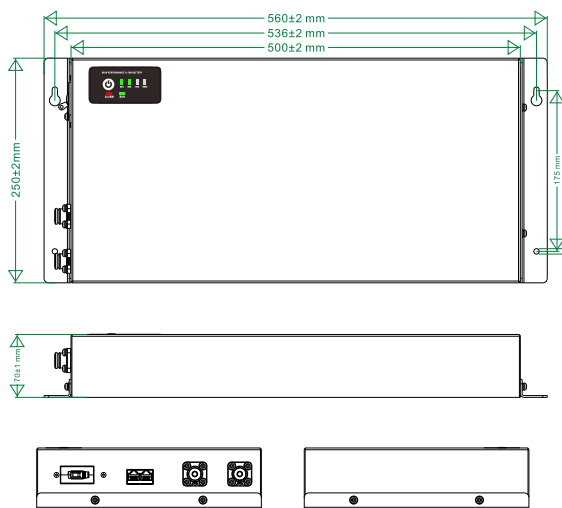
LFP Li-ion Battery



NPL12-100MC



Dimension:



Power Terminal
M6*11 internal thread

Unit: mm

FEATURES

- + Prismatic LiFePO4 cells, High consistency, long cycle life and much more safety.
- + UN38.3 Certification
- + The cycle life over 3500 times @80%DOD

DESIGN

- + SPCC with black spraying case.
- + ON/OFF Button, LED indicators for SOC, RUN and ALM.
- + Communication port- RS485, CAN.
- + Fast charge performance.
- + -20~+55° C widely temperature range.
- + Maintenance free.

BATTERY MANAGEMENT SYSTEM (BMS)

- + Integrated software BMS .
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, Over Current, Over temperature, Low temperature and short circuit protection.

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Model	NPL12-100MC
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	100
Total Energy [Wh]	1280
Max. Charging Current [A]	100
Recommended Charging Current [A]	50
Charging Voltage [V]	14.0~14.6
Max. Discharging Current [A]	100
End of Discharge Voltage [V]	11.2
Pulse Discharge Current	300A @ 1s
Dimension [W*D*H, mm]	560*250*70
Weight [Kg]	14.0
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50°C Discharge: -20 ~ +55°C
BMS Protection	Over charge Over discharge, Over current, Over temperature, Low temperature, Short circuit
Parallel Support	Yes, Max 4 Sets
Series Support ⁽¹⁾	Yes, Max 4 Sets
Cycle Life ⁽²⁾	>3500
Designed Calendar Life	10 Years
Certification	UN38.3, MSDS
Communication	Bluetooth connectivity ⁽³⁾

Note:

- 1.For series connection, don't support communication.
- 2.80%D OD and to 80% of initial capacity
3. To install Bluetooth App, search "Neuton Power" at Apple App store or Google play Or scan the QR code.



The datasheet is subject to change without prior notification.

Neuton Power (12.8V) LFP

12.8V100Ah

The battery includes an integrated LiFePO₄ Battery Management System (BMS) that monitors and optimizes each individual prismatic cell during charging and discharging. It protects the battery pack from overcharge, over-discharge, high and low temperatures, over-current, and short circuits. Overall, the BMS ensures safe, efficient, and reliable operation of the battery.

Over-Charge Alarm & Protection	
Over-Charge Alarm	3.55V (For cell) 14.0V (For pack)
Over-Charge Protection	3.7V (For cell) 14.8V (For pack)
Over-Charge Protection Delay	1000 ms
Over-Charge Release	3.45V (For cell) 13.8V (For pack)
Over-Discharge Alarm & Protection	
Over-Discharge Alarm	2.8V (For cell) 11.2V (For pack)
Over-Discharge Protection	2.5V (For cell) 10V (For pack)
Over-Discharge Protection Delay	1000 ms
Over-Discharge Release	2.8V (For cell) 11.2V (For pack)
Over Current Alarm & Protection	
Charge Over Current Alarm	67.5A
Charge Over Current Protection	105A
Charge Over-Current Protection Delay	3S
Charge Over Current Protection Release	Automatic release after 1min and up to 3 times or Discharge
Discharge Over Current Alarm	105A
Discharge Over Current Protection-1	110A
Discharge Over Current Protection-1 Delay	13S
Discharge Over Current Protection-2	350A
Discharge Over Current Protection-2 Delay	3s
Discharge Over Current Protection Release	Automatic release after 1min and up to 3 times or Charge
Over Temperature Alarm & Protection	
Charge Low Temperature Alarm	7°C
Charge Low Temperature Protection	0°C
Charge Low Temperature Protection Release	5°C
Charge High Temperature Alarm	50°C
Charge High Temperature Protection	55°C
Charge High Temperature Protection Release	45°C
Discharge Low Temperature Alarm	-10°C
Discharge Low Temperature Protection	-20°C
Discharge Low Temperature Protection Release	-17°C
Discharge High Temperature Alarm	55°C
Discharge High Temperature Protection	60°C
Discharge High Temperature Protection Release	50°C
Short Circuit Protection	
Short Current Protection Delay Time	1500 uS
Short Current Release Method	Release load