

12.8V300Ah

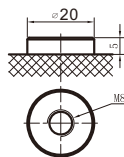
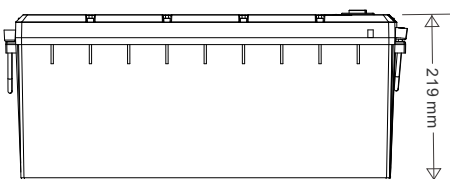
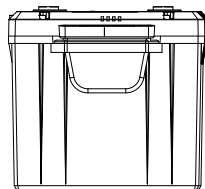
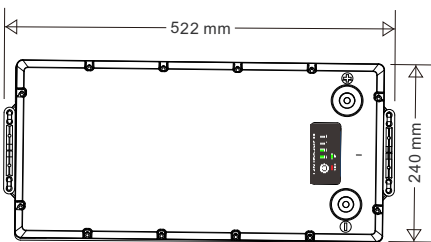
LFP Li-ion Battery



NPL12-300G2



Dimension:



Unit: mm

FEATURES

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

DESIGN

- + Detachable ABS case, better than traditional case.
- + ON/OFF Button, LED indicators for SOC, RUN and ALM.
- + Fast charge performance.
- + -20~+55° C widely temperature range.
- + Maintenance free.

BATTERY MANAGEMENT SYSTEM (BMS)

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

12.8V300Ah

Model	NPL12-300G2
Part Number	
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	300
Total Energy [Wh]	3840
Max. Charging Current [A]	200
Recommended Charging Current [A]	150
Charging Voltage [V]	14.0~14.6
Max. Discharging Current [A]	200
End of Discharge Voltage [V]	11.2
Pulse Discharge Current	300A @ 1s
Dimension [W*D*H, mm]	522*240*219
Weight [Kg]	31.5
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	Yes, Max 4 Sets
Cycle Life	>3500
Designed Calendar Life	10 Years
Certification	UN38.3, CE, MSDS

Note:
1. 80%DOD and to 80% of initial capacity

The datasheet is subject to change without prior notification.

Neuton Power (12.8V) LFP

12.8V300Ah

The battery integrate LiFePO4 type Battery Management System (BMS) inside which can monitor and optimize each single prismatic cell during charge & discharge and protect the battery pack from overcharge, over discharge, high temperature, low temperature, over current and short circuit. Overall, the BMS helps to ensure safe and accurate 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	210A
Charge Over Current Protection	220A
Charge Over-Current Protection Delay	5S
Charge Over Current Protection Release	Automatic release after 1 min and up to 3 times or Discharge
Discharge Over Current Alarm	210A
Discharge Over Current Protection-1	220A
Discharge Over Current Protection-1 Delay	5S
Discharge Over Current Protection-2	300A
Discharge Over Current Protection-2 Delay	200mS
Discharge Over Current Protection Release	Automatic release after 1 min 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