

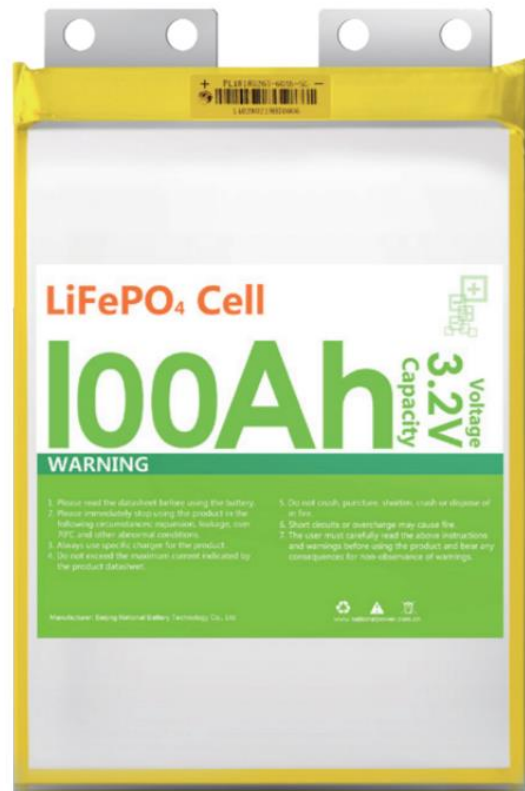
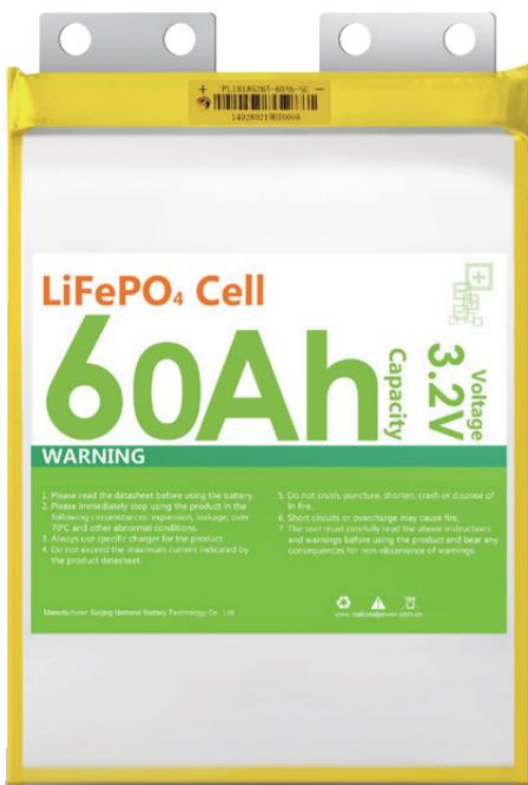


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Technical specification

NPB60AH, NPB100AH

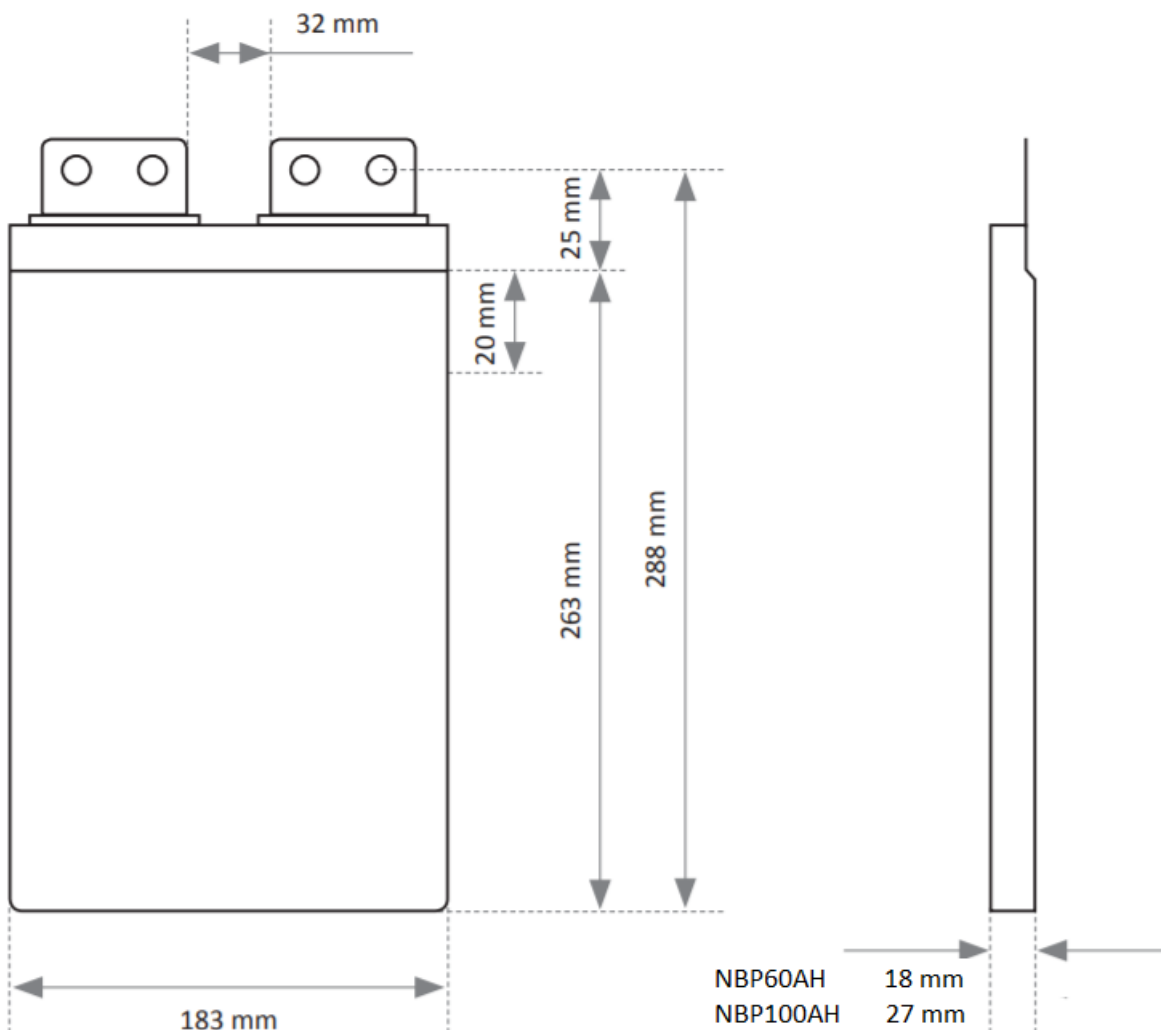


THE TECHNICAL SPECIFICATION OF NPB60AH AND NPB100AH CELLS

THE ADVANTAGES OF THE NPB***AH CELLS

The NPB60AH and the NPB100AH is LiFePO₄ prismatic pouch cell designed to meet severe requirements in various industrial and EV applications. Compared with standard metal or plastic prismatic cells, the energy density is about 10 % to 20 % better. Industry leading abuse tolerance and approvals according to UN38.3 and UN3480, coupled with excellent life performance show that these cells can be used for a wide range of applications.

DIMENSION DRAWING:



TECHNICAL PARAMETERS:

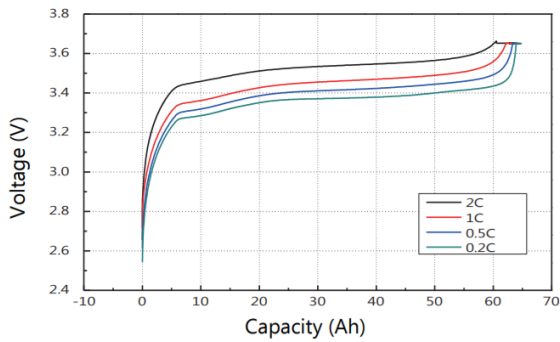
Model name	NBP60AH	NBP100AH
Nominal Capacity	60 Ah	100 Ah
Nominal Voltage	3.2 V	
Charging Method	CC/CV	
Ambient temperature Charge	0 °C ~ 45 °C	
Ambient temperature Discharge	-20 °C ~ 50 °C	
Ambient temperature Storage	10 °C ~ 30 °C	
Rated charge voltage	3.65 V	
Max. voltage	3.80 V	
Discharge voltage	2.8 V	
Minimal voltage	2.5 V	
Rated dis/charge current (0.3C)	18 A	30 A
Max continuous dis/chargé current (1C)	60 A	100 A
Weight	1500 ± 30 g	2350 ± 30 g
Gravimetric Energy Desnity	135 ± 10 Wh/kg	145 ± 10 Wh/kg
Volumetric Energy Density	240 ± 10 Wh/kg	255 ± 10 Wh/l
Dimension (h x w x d)	288 x 183 x 18 mm	288 x 183 x 27 mm

CAUTION:

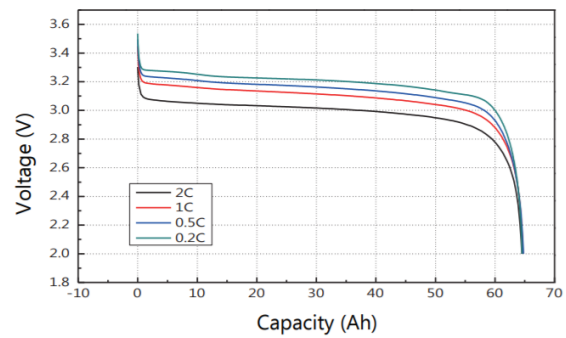
The NPB100AH cell is in pouch design and it is necessary to protect the cell from mechanical damage. Any scratches should lead to damage of the cell.

PERFORMANCE (demonstrated on 60 Ah cells):

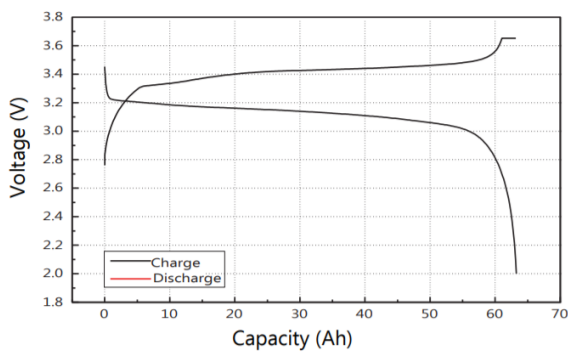
Charge rate characteristics at 25 °C



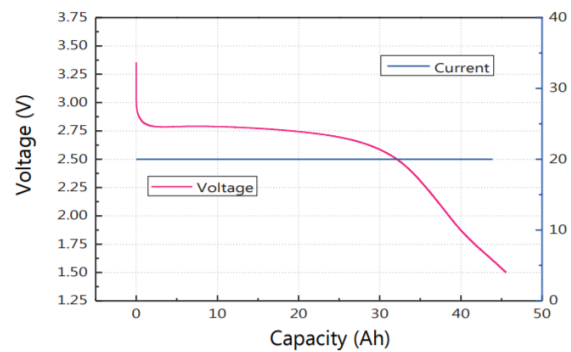
Discharge rate characteristics at 25 °C



Charge rate characteristics at 1 C (25 °C)



Discharge rate characteristics at 0.3 C (-20 °C)



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