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Technical specification

# NPB100AH



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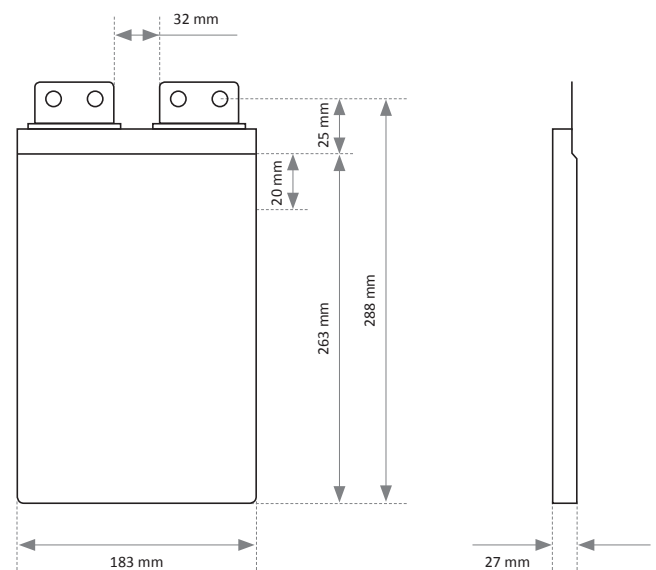
## The technical specification of the NPB100AH cell

### THE ADVANTAGES OF THE NPB100AH CELLS

The NPB100AH is LiFePO<sub>4</sub> 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.

Model name	NPB100Ah
Nominal voltage (V)	3.20 V
Nominal capacity (Ah)	100 Ah (@0.3C, 25°C)
Rated charge voltage (V)	3.65 V
Maximal voltage (V)	3.80V
Discharge voltage (V)	2.80V
Minimal voltage (V)	2.50 V
Rated discharge current 0.3C (Amp)	30 A
Maximal continuous discharge current 1C (Amp)	100 A
Rated charge current 0.3C (Amp)	30 A
Maximal charge current 1C (Amp)	100 A
Internal resistance (mOhm)	< 2 mOhm
Cycle life (at 0,3C, 25°C)	<b>3000 cycles</b> at 100% DoD up to 80% residual capacity <b>4000 cycles</b> at 90% DoD up to 70% residual capacity <b>6000 cycles</b> at 80% DoD up to 60% residual capacity
Self discharge rate (% per month)	< 3%
Operating temperature (charging)	0 to 45 °C (at 0.3C or less)
Operating temperature (discharging)	-20 to 50 °C (at 0.3C or less)
Dimensions width x length x height (mm)	183 x 27 x 288 mm
Weight (tolerance +/- 30g)	2.38 kg

Dimensions: 183 x 27 x 288 mm

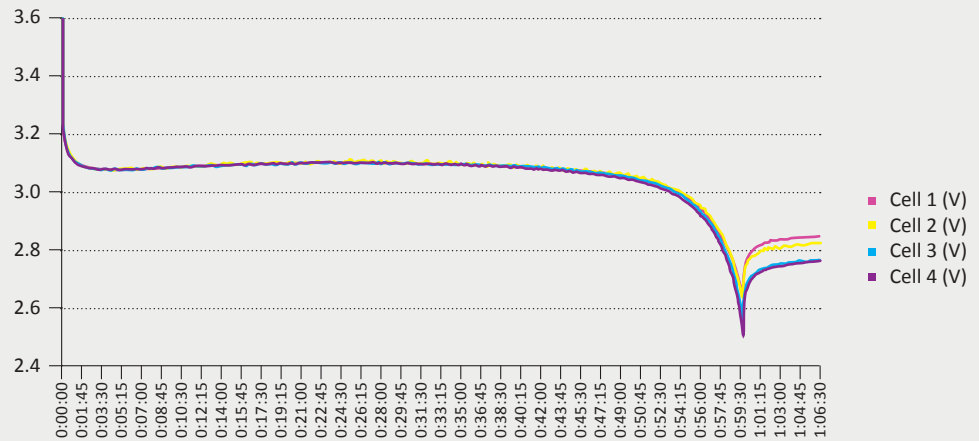


## Operation test data for the NPB100AH cell

Discharge current:  
103 Amp

Test time to 2.6V:  
0:59:45 h/m/s

Calculated capacity:  
102,57 Ah



### 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.

