

Lithium battery cell

Model No. : AT280Ah-LFP_battery cell

The lithium iron phosphate battery (LFP) selected in this solution has the advantages of high specific energy, long cycle life, low cost, high cost performance, high current charge and discharge, high temperature resistance, high energy density, no memory, safety and no pollution. It has been widely used in energy storage systems.

The lithium battery cell has a nominal voltage of 3.2V and a nominal capacity of 280Ah. Other specific specifications are shown in Table as below.

Specifications and parameters of battery cells

No.	Item	Specification	Remark
1	Battery Type	LFP	Hard pack
2	Nominal Voltage (V)	3.2	
3	Nominal capacity (Ah)	280	
4	Nominal charging current (A)	140	
5	Max. continuous charging current (A)	280	
6	Nominal discharge current (A)	140	
7	Max. continuous discharge current (A)	280	
8	Voltage range (V)	2.5~3.65	Limited range
9	Storage temperature range (°C)	2.7~3.6	Recommended range
10	Operating temperature range (°C)	-10 ~+45	
11	Operating humidity (%)	0~+45	
12	Referent outlook diagram	≤95%	