

## 1.1、Cell

### 1.1.1、Cell specifications



Item	Specification		Note
Capacity	Nominal	3600mAh	0.5C discharge
	Minimum	3500 mAh	0.5C discharge
Alternating Internal Resistance	Maximum	18mΩ	AC 1 kHz
Nominal Voltage		3.2V	
Charging Voltage		3.65±0.05 V	
Standard Charge Conditions (Constant current charging and then constant voltage charging)	Current	0.5C (1800 mA)	
	Voltage	3.65V	25°C±2°C
	Cut-off Current	72±5mA	0.02C
Max Charging Current	0°C≤T≤45°C	1C(3600 mA)	
Standard Discharge Conditions (Constant Current Discharge)	Current	1C (3600mA)	25°C±2°C
	Cut-off Voltage	2.5±0.05V	
Max Discharge Current	Suggest 5°C≤T≤45°C	3C (10800mA)	
Working Temperature	Charge	0~45°C	
	Discharge	-20~60°C	
Storage Temperature		-20~60°C	
Weight		85 ± 2 g	
Dimension	Height	65.5±0.32mm	
	Diameter	26.2±0.2mm	
Appearance	Without break, scratch, distortion, contamination, leakage, and so on		

## 1.2、LiFePO4 Battery Pack

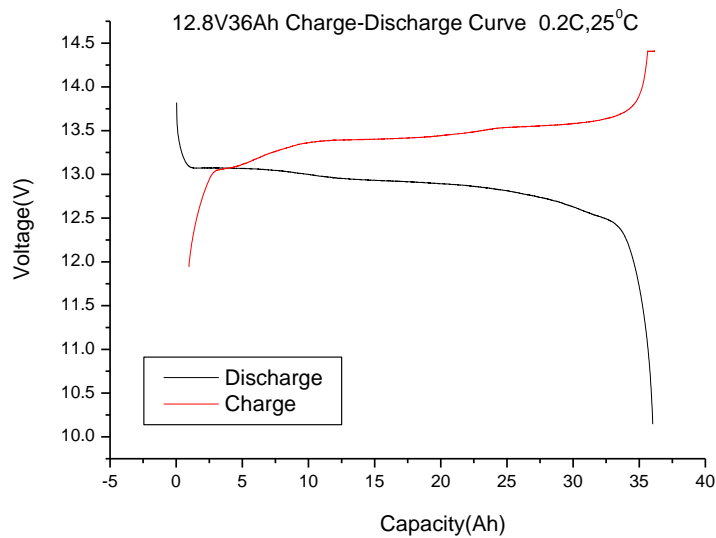
### 1.2.1、 Battery related parameters

Items		Parameters
Battery Model		IFR-12.8V36Ah (26650-3.2V-3600mAh-4S10P)
Nominal voltage		12.8V
Typical capacity		36±0.2Ah( At 0.2C discharge rate)
Discharge	Working current	≤36A
	Cut-off voltage	About 10V
Charge	Voltage	14.4±0.5V
	Max charging Current	≤18A
	Charge mode	CC/CV, please use a special lithium charger
	Charging cut-off current	About 0.72A
Operation Temperature	Charge	0°C ~ +45°C
	Discharge	-20°C ~ +60°C
Storage Temperature		-20°C ~ 60°C
Discharging Inner Resistance		≤10mΩ
Charge and discharge port		M6 terminal
Protocol (optional)		with Bluetooth
Shell Material		ABS
Protection Function		Overcharge protection、 Over discharge protection、 Temperature protection、 Short circuit protection、 Overcurrent protection、 Balanced protection
Weight		5±0.5Kg (Single weight)
Size (L*W*H)		(195±2) mm * (130±2) mm* (154±2) mm

## Cycle

The cycle life is not less than 1500 times, and the capacity retention rate is  $\geq 80\%$ . (Charge according to 3.2 standard charge, put it aside After 0.5~1h; discharge according to the 3.3 standard, put it aside for 0.5~1h, count as 1 cycle).

### 1.2.2、 Charge and discharge curve



### 1.3、 BOM

NO	Material specifications
1	Cell
2	BMS
3	Nickel strap
4	ABS
5	Wire harness
6	labeling