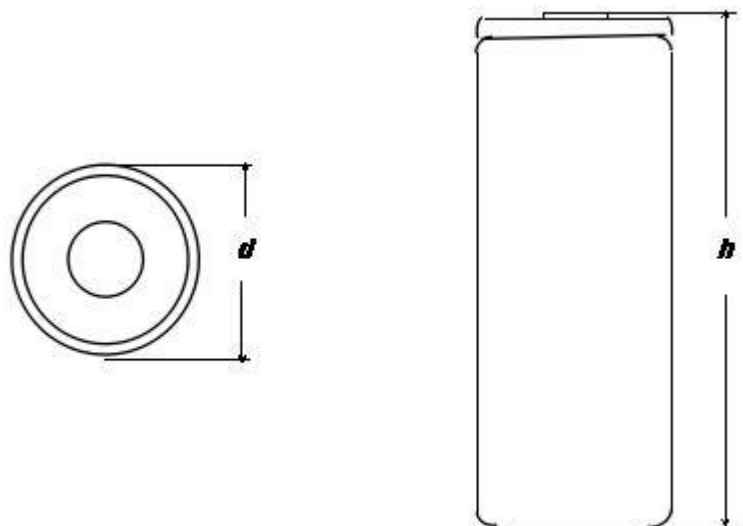


## LiFePo4 SPECIFICATION

MODEL: IFR32600

Capacity: 3500mAh

Voltage: 3.2V



### 1. Scope

This specification is applied to the reference battery in this Specification and manufactured by Ceba Battery.

### 2. Product Specification

No.	Item	General Parameter		Remark
		Typical		
1	Rated Capacity	Typical	3500mAh	
		Minimum	3490mAh	
2	Nominal Voltage	3.2V		Mean Operation Voltage
3	Voltage at end of Discharge	2.0V		Discharge Cut-off Voltage
4	Charging at end of Voltage	3.65V		
5	Internal Impedance	$\leq 50m\Omega$		Internal resistance measured at AC 1KHz after 50% charge. The measure must uses the

6	Standard charge	Constant Current 0.5C <sub>5</sub> A Constant Voltage 3.65V 0.01C <sub>5</sub> A cut-off	
7	Standard discharge	Constant Current 0.5C <sub>5</sub> A end Voltage 2.0V	
8	Fast charge	Constant Current 1C <sub>5</sub> A Constant Voltage 3.65V 0.01C <sub>5</sub> A cut-off	
9	Fast discharge	Constant Current 1C <sub>5</sub> A end Voltage 2.0V	
10	Maximum Continuous Charge Current	1C <sub>5</sub> A	
11	Maximum Continuous Discharge Current	2C <sub>5</sub> A	
12	Operation Temperature Range	Charge : 0~45°C	60±25% R.H. Bare Cell
		Discharge : -10~60°C	
13	Storage Temperature Range	Less than 1 year : -20~25°C	60±25% R.H. at the shipment state
		Less than 3 months : -20~40°C	
14	Weight	Approx : 125g	FYI
15	Pack Dimension	Height : 32.5mm	Initial Dimension
		Width : 60.5mm	

## 2. Performance and Test Conditions

### Standard Test Conditions

Test should be conducted with new batteries within one week after shipment from our factory and the cell shall not be cycled more than five times before the test. Unless otherwise specified, test and measurement shall be done under temperature of 20±5°C and relative humidity of 45~48%. If it is judged that the test results are not affected by such conditions, the tests may be conducted at temperature 15~30°C and humidity 25-85% R.H.

### Measuring Instrument or Apparatus

#### \*Dimension Measuring Instrument

The dimension measurement shall be implemented by instruments with equal or more precision scale of 0.01mm.

#### \*Voltage

Standard class specified in the national standard or more sensitive class having inner impedance more than 10k Ω/V.

**\*Ammeter**

Standard class specified in the national standard or more sensitive class. Total external resistance including ammeter and wire is less than 0.01 Ω .

**\*Impedance Meter**

Impedance shall be measured by a sinusoidal, alternating current method (1kHz LCR meter)

**\*Standard Charge/Discharge**

Standard charge: Test procedure and its criteria are referred as follows:

0.5C5A=

Charging shall consist of charging at a 0.5C5A constant current rate until the cell reaches 3.65V. The cell shall then be charged at constant voltage of 3.65 volts tapering the charge current. Charging shall be terminated when the charging current has tapered to 0.01C5A. Charge time: Approx. 4.0h, the cell shall demonstrate no permanent degradation when charged between 0°C and 45°C .

**\*Standard Discharge**

0.2C5A = Cells shall be discharged at a constant current of 0.2C5A to 2.0 volts @20°C ± 5°C .

If no otherwise specified, the rest time between Charge and Discharge amount to 3.min.

**Appearance**

There shall be no such defect as flaw, crack, rust, leakage, which may adversely affect commercial value of battery.

**Initial Performance Test**

Item	Test Method Condition	Requirements
(1) Open-circuit Voltage	The open-circuit voltage shall be measured within 24 hours after standard charge.	
(2) Internal impedance	Internal resistance measured at AC 1KHz after 50% charge.	
(3) Minimal Rated Capacity	The capacity on 0.2 C <sub>5</sub> A discharge till the voltage tapered to 2.0V shall be measured after rested for 30min then finish standard charge.	Discharge Capacity