



# Lithium-ion Rechargeable Battery

## Product Manual

Product Name :  LiFePO4 Battery Pack

Product Specification :  3.2V1.5Ah

Designed	Checked	Approved
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# Shandong Goldencell Electronics Technology CO.,LTD Product Manual

NO. : JG16- 3394

REV : R1.0

DATE: 2017-01-16

## 1. Preface

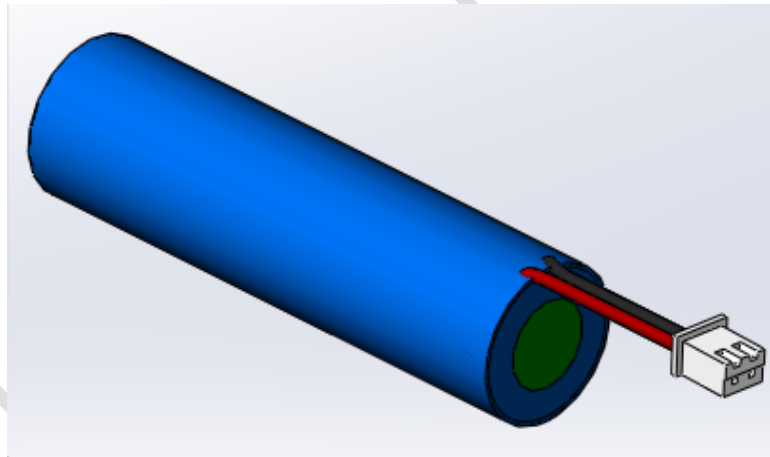
This manual describes the type and size, performance, technical characteristics, warning and caution of the rechargeable pack. The specification only applies to 3.2V1.5Ah pack supplied by Shandong Goldencell Electronics Technology CO.,LTD.

## 2. Product and Model

2.1 Product: Lithium-ion Battery Pack

2.2 Model: 1IFR3.2-1.5-Y ( 18650-3.2V-1S1P )

2.3 Picture And Output Wire ( In order to prevail in kind )



Positive output	Red one wire with 22AWG	Length : 100±5mm	JST-XHP-2P
Negative output	Black one wire with 22AWG	Length : 100±5mm	

## SECTION I / II

Security rating:  Top secret  Confidential  Secret  Ordinary



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## 3. Battery Pack Specifications

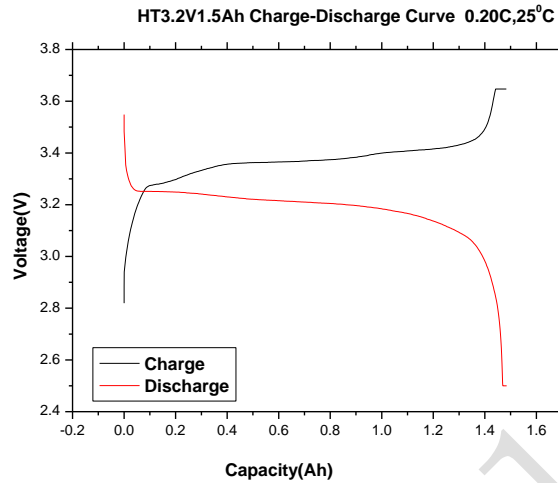
Items		Parameters
Nominal voltage		3.2V
Typical capacity		1.5±0.1Ah( At 0.2C discharge rate)
Discharge	Normal current	≤ 0.95A
	Max continuous discharge current	≤ 1A(≤ 5min)
	Cut-off voltage	About 2.5V
Charge	Voltage	3.6±0.05V
	Current	≤ 0.75A
	Charge mode	CC/CV , please use special lithium charger
Inner resistance	Discharging Inner resistance	≤ 120mΩ
Operation temperature/ humidity range	Charge	0°C ~ +45°C
	Discharge	-20°C ~ +60°C
		When the environment temperature is higher than 45°C , please pay attention to ventilation and heat rejection.
Humidity	RH≤ 85%, When the environment humidity is higher than 85% , please pay attention to protect	
Operation temperature/ humidity range	Temperature	0°C ~ 40°C ( Capacity 80% ) Recommended long-term storage temperature is 15~25°C
	Humidity	RH≤ 50% , Easily oxidized components note sealed
Shell material	PVC	
Weight	43±5g	
Size ( L*W*H )	Φ ( 19±1 ) mm * ( 70±1 ) mm	
Cycle	Standard charge at 0.2C ( A ) , rest 0.5~1 h , discharge at 0.2C to cut off voltage , rest 0.5~1h,repeat the above steps until 1500 cycles.( capacity retention rate≥ 80%)	

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#### 4.Characteristic curve



#### 5. Product Liability

Shandong Goldencell Electronics Technology CO.,LTD is not responsible for the incident caused by not obeying the Manual. Before using the battery, you should read the specifications( The manual is divided into two parts), usage instruction and some attentions carefully to learn its application method and areas. If the phenomenon such as error using method or wrong circuit connection, or input power data, working index are inconsistent with the Manual , cause damage to product, load and its accessories, we are not responsible for it.

**Our company have the right to change the content of specification without prior notice ;**

**The final explanation of specification belongs to our company.**

**If you have any questions, please contact the following address:**

**Headquarter**