

Product Manual

NO. : JG18-5417

REV : R1.0

DATE: 2018-01-16

Lithium-ion Rechargeable Battery

Product Manual

Product Name : Li-ion Battery Pack

Product Specification : 14.4V45Ah

Designed	Checked	Approved
Jing Li	Kyle	Shijie Ren

SECTION I / II

Security rating: Top secret Confidential Secret Ordinary

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1. Preface

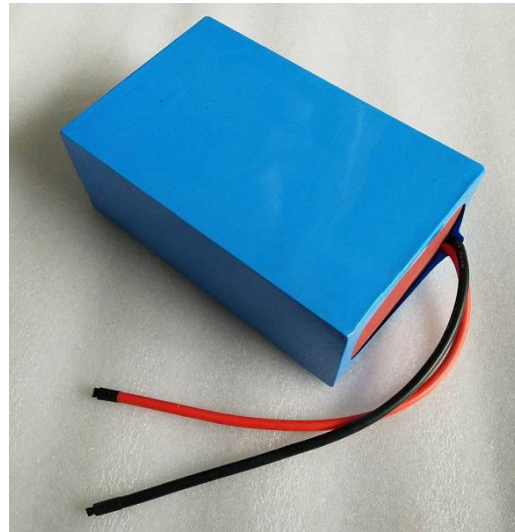
This manual describes the type and size, performance, technical characteristics, warning and caution.

2. Product and Model

2.1 Product: Lithium-ion Battery Pack

2.2 Model: 41TR14.4-45-Y (26650-3.6V-4S10P)

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



Positive	One red wire with 8AWG	Length:300±20mm
Negative	One black wire with 8AWG	Length:300±20mm

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3. Battery Pack Specifications

Items		Parameters
Nominal voltage		14.4V
Typical capacity		45±2Ah(At 0.2C discharge rate)
Discharge	Max continuous current	60A (≤ 5min)
	Cut-off voltage	About 12V
Charge	Voltage	16.8±0.1V
	Current	≤ 25A
	Charge mode	CC/CV , please use special lithium charger
Inner resistance	Discharging Inner resistance	≤ 45mΩ
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
Storage 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
Protection function	Over charge protection 、 Over discharge protection 、 Temperature protection、 Balanced function	
Shell material	PVC	
Weight	4.3±0.2kg	
Size (L*W*H)	(225±3) mm * (145±2) mm * (85±2) 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 500 cycles.,capacity retention rate≥ 80%.	

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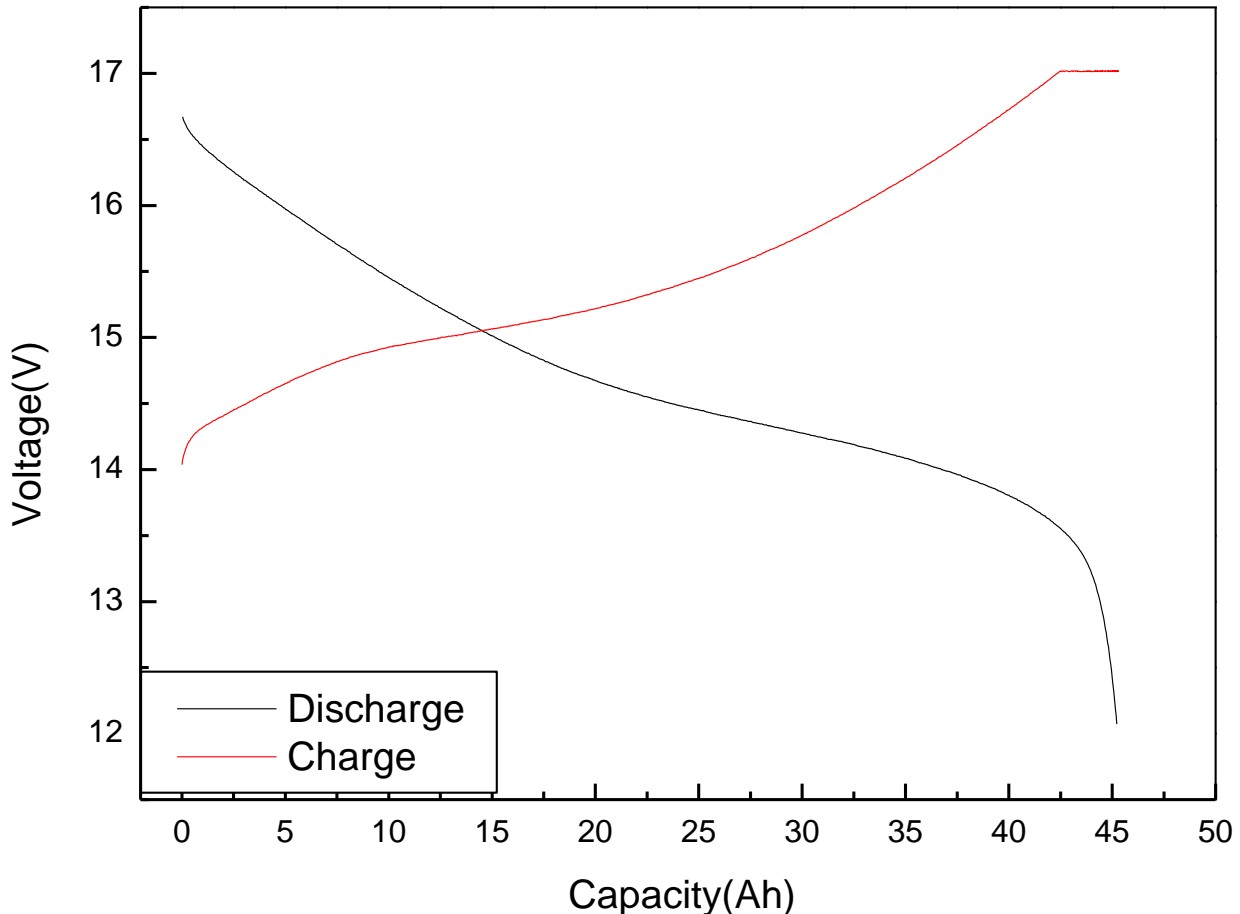
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4.Characteristic curve

14.4V45Ah Charge-Discharge Curve 0.2C,25⁰C



5. Product Liability

It 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.

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