



Lithium-ion Rechargeable Battery

Product Manual

Product Name : LiFePO4 Battery Pack

Product Specification : 51.2V60Ah

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

NO. : JG16-003753

REV : R1.0

DATE: 2016-04-26

1. Preface

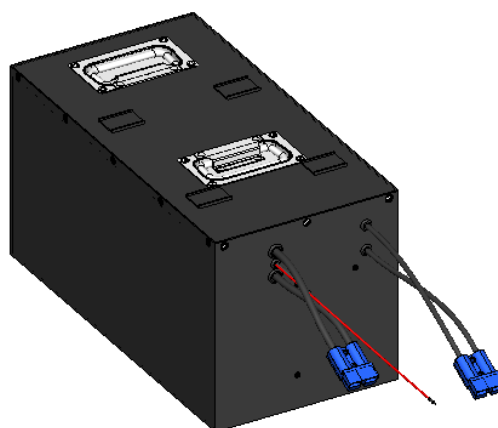
This manual describes the type and size, performance, technical characteristics, warning and caution of the rechargeable pack. The specification only applies to 51.2V60Ah pack supplied by Shandong Goldencell Electronics Technology CO.,LTD.

2. Product and Model

2.1 Product: Lithium-ion Battery Pack

2.2 Model: 16IFR51.2-60 -Y (26650-3.2V-16S20P)

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



Charging input	one wire 10AWG	Length : 420±10 mm	50A Blue Anderson connector
Discharge output	two wires 10AWG	Length :360±10 mm	50A Blue Anderson connector
Balanced box	WS16K5Z-5Pins		
P- Signal	18AWG	1400±20 mm	

SECTION I /II

Security rating: ☐Top secret ☐ Confidential ☒ Secret ☐ Ordinary



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3. Battery Pack Specifications

Items		Parameters
Nominal voltage		51.2V
Typical capacity		60±2Ah(At 0.2C discharge rate)
Discharge	Normal current	≤ 40A
	Max continuous current	≤ 80A (≤ 5min)
	Cut-off voltage	About 40.0V
Charge	Voltage	57.6±0.1V
	Current	≤ 15A
	Charge mode	CC/CV , please use special lithium charger
Inner resistance	Discharging Inner resistance	≤ 60mΩ
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
Protection function	Over charge protection、 Over current protection、 Temperature protection、 Balanced function	
Shell material	Metal	
Weight	34.5±0.5kg	
Size (L*W*H)	(430±1) mm * (222±1) mm * (230±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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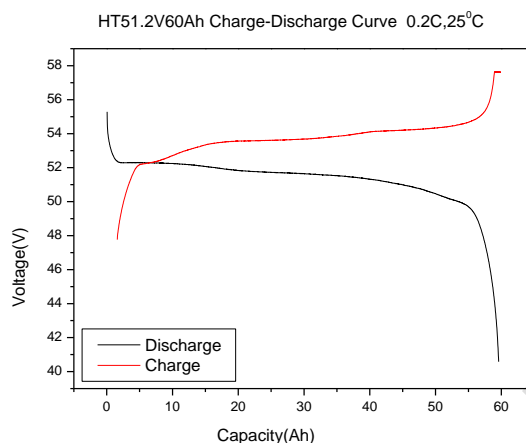
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4.Characteristic curve



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:

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