



Lithium-ion Rechargeable Battery

Product Manual

Product Name : LiFePO4 Battery Pack

Product Specification : 51.2V90Ah

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

NO. : JG18-008681

REV : R1.0

DATE: 2018-05-05

1. Preface

This manual describes the type and size, performance, technical characteristics, warning and caution of the rechargeable pack. The specification only applies to 51.2V90Ah pack supplied by Shandong Goldencell Electronics Technology CO.,LTD.

2. Product and Model

2.1 Product: Lithium-ion Battery Pack

2.2 Model: 16IFR51.2-90 -Y (26650-3.2V-16S30P)

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



Charge	Positive	Red one wire with 10AWG	Length : 430±30 mm	50A Blue Anderson connector
	Negative	Black one wire with 10AWG	Length : 430±30 mm	
Discharge	Positive	Red two wire with 10AWG	Length : 370±30 mm	50A Blue Anderson connector
	Negative	Black two wire with 10AWG	Length : 370±30 mm	
Connect	P+	Red one wire with 10AWG	Length : 300±10 mm	50A Red Anderson connector
	Tandem line	Blue one wire with 8AWG	Length : 300±10 mm	
Gathering line	B13 B14 B15 B+	Four wire	Length : 300±10 mm	C5081HF/H M-4P

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		90±3Ah(At 0.2C discharge rate)
Discharge	Normal current	≤ 40A
	Cut-off voltage	About 40.0V
Charge	Voltage	57.6±0.1V
	Current	≤ 30A
	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 discharge protection 、 Temperature protection、 Balanced function	
Shell material	Iron	
Weight	54.2±10kg	
Size (L*W*H)	L : (480±3) mm * (250±2) mm * (236±2) mm	
	S : (240±2) mm * (180±1) mm * (230±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 1500 cycles.(capacity retention rate≥ 80%)	

SECTION I /II

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



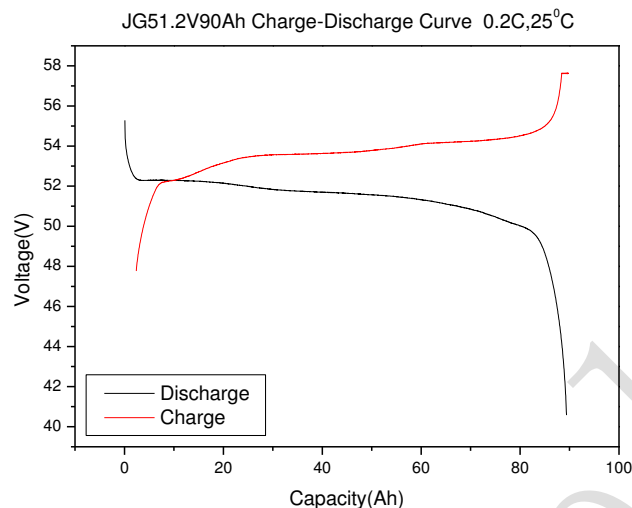
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4.Characteristic curve



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.