



# 100Ah 25.6V Lithium iron phosphate battery pack

## Technical specification

Product model: REDBO-QGL-B-C

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## 1 Radius

This product specification is applicable to the lithium iron phosphate battery pack produced by Jiangmen Jianguo New Energy Technology Co., LTD. The model, specification, size, performance and maintenance of the product are specified.

## 2 Product type and model

Product category: Capacity type lithium iron phosphate battery pack, using lithium iron phosphate cell, and BMS protection plate composition

Product model: REDBO-QGL-B-C

Model description:

REDBO    –    QGL    –    B    –    C

Factory name - Lead to lithium - style - capacity level



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## 3 Technical performance

### 3.1 Function introduction

(1) Energy storage. Efficient energy storage through lithium iron phosphate battery, long service life, high reliability.

(2) Automatic protection function. Quick response. High-precision data sampling, with complete and reliable protection functions:

- ◇ Overall overvoltage and undervoltage protection of battery pack, single battery overvoltage and undervoltage protection;

- ◇ Charge and discharge overcurrent protection;

- ◇ Charge and discharge temperature overtemperature protection;

- ◇ Short circuit protection;

(3) Protection reset mode. When the battery pack or cell is under overcharge protection, the voltage returns to the overcharge reset voltage.

(4) Battery balancing function. According to each battery voltage balance control, energy transfer type balance mode.

(5) Charge and discharge at the same port;

Note: 1) This product uses 25.6V pure hardware BMS protection board.

### 3.2 Technical specification

item	specification	remark
<b>Model number</b>	REDBO-QGL-B-C	
<b>Rated voltage (V)</b>	25.6	
<b>Rated capacity (Ah)</b>	100	Discharge at 25°C 1C
<b>Maximum charging voltage (V)</b>	29.2	



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Maximum charging current (A)	100	
Rated discharge current (A)	100	
Maximum instantaneous Peak Discharge current (A)	300 (1 second)	
Battery overcharge protection voltage (V)	29.2	
Battery overdischarge protection voltage (V)	18.4	
Single lithium battery maximum voltage protection value (A)	3.65±0.05	
Single lithium battery overvoltage protection recovery value (V)	3.50±0.05	
Minimum voltage protection value of single lithium battery (V)	2.30±0.05	
Single lithium battery undervoltage protection recovery value (V)	2.40±0.05	
External communication mode	There is no	
Number of cycles	2000	
Protection plate static current (mA)	≤1	
Charging temperature range (°C)	0 ~ 55	
Discharge temperature range (°C)	-20 ~ 55	
Size (mm)	485 (L) *170 (W) *245 (H)	
Weight (kg)	500 (L) *220 (W) *300 (H)	
Model number	19	Reference weight

## 4 Appearance and size



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## 5 Outgoing capacity

In addition to the special requirements of customers, the factory capacity of the battery pack is in the range of 40% to 75% capacity.

## 6 Store

(1) Storage time 1 week, storage ambient temperature  $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$ , relative humidity 45% ~ 85%;

(2) Storage time 1 month, storage ambient temperature  $-20^{\circ}\text{C} \sim 45^{\circ}\text{C}$ , relative humidity 45% ~ 85%;

(3) Storage time of 6 months, storage ambient temperature  $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$ ,



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relative humidity 45% ~ 85%.

The battery pack is usually stored in a clean, dry and ventilated room with an ambient temperature of -5 ° C to 35 ° C and a relative humidity of no more than 75%. Contact with corrosive substances should be avoided and fire and heat sources should be kept away. From the date of manufacture, electricity should be added every 6 months of storage, and the temperature range is 25 ° C  $\pm$  5 ° C.

## 7 Conditions of use

Use the battery only under the following conditions, otherwise it will reduce the performance of the battery or shorten the service life of the battery. Use of the battery outside this temperature range may cause overheating, explosion, or fire.

(1) Charging: 0°C~45°C, relative humidity 45% ~ 85%;

(2) Discharge: -10°C~55°C, relative humidity 45% ~ 85%;

(3) The daily average relative humidity is not more than 80%, the monthly average relative humidity is not more than 80%;

(4) Installation site without strong vibration and impact, no strong electromagnetic interference, the external magnetic field induction intensity shall not exceed 0.5mT;

(5) Installation vertical inclination does not exceed 5%;

(6) There shall be no explosive dangerous media in the use place, the surrounding media does not contain harmful gases and conductive media that corrode metal and destroy insulation, and mold is not allowed to exist.

## 8 Shelf life

The shelf life of the battery is 2 years after the factory. The company promises that if in 2 years due to the quality of the battery itself, the company will be



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responsible for the replacement, if it is due to user misuse caused by the problem, will not be replaced.

## 9 Precautions for use

Read the following carefully to ensure the proper use of lithium-ion batteries. Our company is not responsible for any problems arising from violations of the following precautions.

### 9.1 Hazardous matter

Failure to read the following carefully may result in battery leakage, explosion, or fire.

- (1) Do not put the battery into water or get it wet;
- (2) Do not use or store batteries near heat sources (such as fire or heaters);
- (3) Do not reverse the positive and negative terminals;
- (4) Do not connect the battery directly to the wall socket or the car cigarette socket;
- (5) Do not put the battery into the fire or heat the battery;
- (6) It is prohibited to short-circuit the positive and negative electrodes of the battery with wires or other metal objects, and it is prohibited to transport or store the battery with necklaces, hairpins or other metal objects;
- (7) Do not hit, throw or cause the battery to be subjected to mechanical vibration;
- (8) It is forbidden to Pierce the battery housing with nails or other sharp objects, and it is forbidden to hammer or pedal the battery;
- (9) It is prohibited to decompose the battery in any way;
- (10) Do not charge the battery under fire or extremely hot conditions.



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## 9.2 Warn

Failure to read the following carefully may result in battery leakage, explosion, or fire.

(1) Charge with lithium iron phosphate battery charger, the highest voltage 29.2V;

(2) It is prohibited to use in combination with a single battery (such as dry batteries) or batteries of different capacities, models and varieties;

(3) If the battery gives off odor, heat, deformation, discoloration or any other abnormal phenomenon shall not be used; If the battery is being used or charged, remove it immediately from the electrical appliance or charging device and stop using it.

(4) The battery should be placed out of reach of children;

(5) If the battery leaks or emits an odor, it should be immediately removed from close to the open flame; Leaking electrolyte may cause fire or explosion;

(6) If the electrolyte enters the eyes after the battery leaks, do not wipe, rinse with water, and seek medical assistance immediately. If not treated in time, the eyes will be damaged.

## 9.3 Matters needing attention

Please use the lithium battery pack strictly according to the instructions. If the battery leaks and the electrolyte gets on the skin or clothing, wash the affected area with running water immediately, otherwise it may cause skin inflammation.

Read the battery device instructions and install and remove the battery correctly.

If the battery string terminal is dirty, wipe it clean with a dry cloth before use. Otherwise, the battery pack will be in poor contact, resulting in energy loss or





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failure to charge.

