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## 1, Scope

This specification is applies to describe the related Battery product in this Specification and the Battery/cell supplied by Kaige New-energy Technbology Co., Ltd only

## 2, PACK Specifications

Item	Standard	Remark
Categories	Lifepo4 Battery	
Specification	51.2V/100Ah	
Nominal voltage	51.2V	
Capacity	100Ah	
minimum capacity	98Ah	0.2C(20A) discharge 2.5V/CELL
Size (L*W*H)	460*343*238 (mm) (excluding hanger and Anderson connector)	
Weight	约 /About : 47.8Kg	
Standard discharge	20A	
Maximum continuous discharge current	100A	Not Cycle
Discharge cut-off voltage	40V	
Charge voltage	57.6V	
Standard charge	20A	
Maximum continuous charge current	100A	Not Cycle
Resistance	$\leq 80\text{m}\Omega$	
Operating temperature range	Charge:0~45℃ Discharge:-20~50℃	
Cycle life	$\geq 1500$ 次/time	0.2C/0.2C at 25℃
Storage humidity	5%~90%	
Charge Discharge interface	ACTB-135	
Mode of communication	RS485	
Shell material	Cold-rolled sheet	

### 3. Product structure



### 4. Storage, Maintenance and Transportation

#### 4.1 Storage

When the battery pack to be long-term stored, charge the battery pack to about 50% capacity( after discharging completely, charge for 4- 5h at 10A), store in dry and ventilated place, charge 4 to 5h for every 3 months.

The battery pack and charger should be stored in clean, dry and ventilated place, avoid contacting with corrosive materials and be away from fire and heat.

#### 4.2 Transportation

The battery pack and charger should be packaged for transport, prevent excessive vibration, shock or extrusion in transport process and prevent the sun and rain. The battery pack can be transported by cars, trains, ships, aircraft and other vehicles etc.

#### 4.3 Maintenance

a. The battery pack should be stored in 40%~60% charged capacity.

b. If battery pack is not used for a long period, it should be replenish charging one time for 2 to 3h for every three month.

c. In the maintenance process, please do not disassemble the battery pack, otherwise it will cause a decline of battery performance.

d. Forbid to remove any cell in the battery pack. Forbid dissecting battery cells.

### 5. Battery Handling Precautions

\* Forbid to immerse battery in water or allow it to get wet!

\* Don't charge, use and store battery near a heat source such as fire and heater! If the battery leaks or releases strange odor, pls remove it from place near fire place immediately. Fully charge the battery before first-time using.

- \* Forbid to reverse the positive and negative pole!
- \* Forbid to throw the battery pack into fire or heat it!
- \* Forbid to short-circuit battery with wire or other metal objects!
- \* Forbid to nail, knock or trample battery!
- \* Forbid to disassemble the battery and battery pack in any way!
- \* Forbid to put the battery into microwave oven or pressure vessel!
- \* If the battery pack gives off odor, gets heat, deformation, discoloration or appears any abnormal phenomenon, stop using it; please remove the battery from electrical appliances and stop using it, when the battery is being used or charged!
- \* Forbid to use battery pack in a very hot environment, such as under direct sunlight or in car on hot day. Otherwise, the battery pack will overheat, which will affect battery performance and shorten battery life!
- \* If the battery leaks and electrolyte leakage enters into the eyes, do not rub, rinse with water immediately and seek immediate medical assistance. If not in time, eyes will be hurt!
- \* Ambient temperature will affect the discharge capacity, if the ambient temperature is beyond the standard environment ( $25\pm 5^{\circ}\text{C}$ ), the discharge capacity will drop!

Special Considerations:

- \* During charging, if there is odor and unusual noise, immediately stop charging.
- \* During discharging, if there is odor, unusual noise, immediately stop discharging.
- \* If there are above phenomenon, please contact the manufacturer, do not disassemble by yourself.

## **6、 Product Liability**

- \* We assume no responsibility for the accident of not operating in accordance with the specification.
- \* If the contents of this specification is changed because improving product quality or upgrading technical parameters, we will not give notice . For the latest product information, please contact our company.