

Lithium Battery Pack Specification 12.8V 50Ah

COMCAST GROUP



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1. Basic information

- 1) Battery Pack: 12.8V50Ah
- 2) Maximum Size: L*W*H: 229mm*138mm*208mm
- 3) The battery is placed in a plastic box and weighs about 7kg.

2. Battery pack and cell illustration

2.1 Battery pack parameter

No.	Item	Parameter	Remarks
1	Rated Voltage (V)	12.8V	
2	Rated Capacity (Ah)	50Ah	
3	Working voltage range (V)	10-14.6V	Can be customized
4	Discharge temperature range	-20-60°C	
5	Charge temperature rang	0-50°C	
6	Charging Current	Max 25A	
7	Charge voltage (V)	14.6	
8	Discharge Current	50A	Can be customized
9	Instant discharging current	100A(10s)	Can be customized
10	Life cycle time	≥2000 times	25°C&80%DOD& 0.3C charge/discharge
11	Connection	M6	
12	Operating humidity	10%-90%	
13	Protection grade	IP65	
14	Communication Functions	Bluetooth 4.0	

3. Warning in handling the lithium-ion cell

To prevent the possibility of the cell from leaking, heating, explosion, please observe the following

precautions:

Don't immerse the cell in water;

Don't use and leave the cell near a heat source such as fire or heater;

When charging, use a cell charger specifically for that purpose;

Don't reverse the positive and negative terminals;

Don't discard the cell in fire or heater;

Don't connect the cell to an electrical outlet directly;

Don't discard the cell in fire or heater;

Don't connect the positive and negative terminal directly with metal objects;

Don't transport and store the cell together with metal objects such as necklaces, hairpins;

Don't pierce the cell with a nail or other sharp object.

4. Shipping

The capacity of delivery battery is approximately at 50% of charging. During the transportation, keep the battery away from acutely vibration, impacting, polarization, drenching.

5. Storage

5.1 Battery status: zero state of battery is strictly prohibited during storage, battery voltage during storage should keep 30-60% SOC;

5.2 Storage conditions: keep the place clean and dry; keep the battery pole clean and no pollution; do not place heavy or liquid containing containers on battery; storage place should without flammable, explosive, toxic things such as chemical and other corrosive gases, no strong mechanical vibration and shock, avoid the strong electromagnetic field and the sun exposure. Suggested storage conditions are as follows:

Temperature	Best temperature	Humidity	Atmospheric pressure
-10~35°C	15~30°C	10~90%RH	90~105kPa

6. Maintenance

6.1 Short-term storage (1 month) of the battery, check the temperature and humidity of the storage place weekly, check the battery for any abnormalities such as leakage. Before using, measure voltage, if less than 12.8V, should charge battery firstly.

6.2 Long-term storage (more than 1 months) of the battery, check the temperature and humidity of the storage place weekly, check the battery for any anomalies such as leakage. Every 2 months do the charge and discharge action (recommended 0.2C). Before using, measure voltage, if less than 12.8V, should charge battery firstly.

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