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# **LITHIUM BATTERY USER MANUAL**

**HJTZ7S-FP  
12V | 36WH | CCA 180A**

**A GLOBAL BRAND OF **

AWARDS:



## **Warning!**

Electrolyte inside the battery is harmful to skin and eyes. If the battery leaks and electrolyte gets in your eyes, do not rub them. Instead, rinse them with clean running water and immediately seek medical attention. If left untreated, electrolyte can cause eye permanent injury.

## **Note**

RCB cannot be held responsible for any damage to the lithium battery, vehicle, other property, or injury to persons if the instructions for installing and maintenance are not followed precisely.

## FITTING

- Check the battery voltage with a voltmeter before fitting. If the voltage is less than 12.8 volts, do a refresh charge (see Charging section).
- Always follow the vehicle manufacturer's direction when fitting.
- Connect correctly the positive and negative leads.
- Fit the battery with spacer or stick form when needed for best possible fit (reference Figs)

## CHARGING

1. Both vehicle and battery charger need to limit voltage between 14.0-15.0 volts when charging. The battery cannot be fully charged if charging voltage less than 14.0 Volts, and the battery would be damaged if the charging voltage over 15.0 Volts.
2. Always remove the battery from the vehicle before charging separately.
3. Charge the battery with a lower current than the **MAX** Charging Current found on the Charging label.

4. After charging, leave the battery for 1 to 2 hours before checking the voltage. If the voltage is less than 12.4 volts, additional charging is necessary.
5. If the battery becomes hot to the touch, stop charging. Allow battery to cool before resuming.

## STORAGE

1. The battery should be stored with 70% charge state (approx).
2. The battery should be stored in a clean, dry and ventilated environment, not in contact with any corrosive substance and away from heat and fire.
3. The battery should be charged completely once every 180 days when in storage.

## TRANSPORTATION

1. The battery should be transported with 70% charge state (approx).
2. The battery should be packed with insulation and shockproof material to avoid damage from sudden jolts and collision.
3. The battery should be handled with care when loading and unloading during transport. Do not throw the batteries and avoid collision.
4. Do not transport the batteries together with flammable, explosive objects, or sharp metal goods.

## MAINTANANCE

1. Disconnect the battery cable always is the best choice if the vehicle is in storage or used infrequently. Or use a standard maintainer or charger to maintain the battery. Or regular charging the battery.
2. If the battery stands by for any period of time, check the voltage in case lower 12.4 Volts, recharge as described on the charging label.
3. Keep the connecting poles clean and securely fastened.
4. The battery is factory sealed and requires no topping up of any fluid. Never attempt to open the battery.

## **ATTENTION FOR BATTERY MANAGEMENT SYSTEM (BMS)**

Vehicle draining current while stalled, forgetting to turn off the engine, headlight or other electrical devices can cause the battery to be over-discharged. The battery enters into shutdown mode, meanwhile battery voltage approaches 0V, and stops supplying power to the vehicle. The battery needs to be reactivated before using again. Follow of following the reactivation methods:

- Kick start: start vehicle with kick start pedal, when the vehicle starts, battery accepts charge from charging system and battery performance will be recovered when it is fully charged. If vehicle cannot be started, shutdown mode is reactivated, the battery can be recharged by 12V charger to recover its performance (except for the charger with an automatic “disulfation mode” function).
- If no start pedals available on the vehicle, shift gear and push the vehicle, when the vehicle starts, the battery accepts charge from charging system, and battery performance will be recovered when it is fully charged. If vehicle cannot be started, shutdown mode is reactivated, the battery can be recharged by 12V charger to recover its performance (except for the charger with an automatic “desulfation mode” function).
- Recharge the battery using an external 12V charger that has output voltage without any load, battery performance will be recovered when it is fully charged.
- For professional only: a professional can choose other chargers that have output voltage without any load to reactive the battery, but should limit the charging voltage between 14.0–15.0V. Battery performance will be recovered when it is fully charged.

## CAUTIONS

1. Do not immerse the battery in water.
2. Do not use or store the battery near sources of fire or heater.
3. Do not reverse the positive (+) or negative (-) terminals.
4. Do not connect the battery directly to wall outlets.
5. Do not put the battery into a fire or apply direct heat to it.
6. Do not short-circuit the battery by connecting wires or other metal objects to the positive (+) and negative (-) terminals.
7. Do not pierce the battery casing with a nail or other sharp objects, break it open with a hammer, or step on it.
8. Do not strike, throw, or subject the battery to sever physical shock.
9. Do not directly solder the battery terminals.
10. Do not attempt to disassemble or modify the battery in any way.
11. Do not place the battery in a microwave oven or pressurized container.
12. Do not use the battery in combination with primary batteries (such as dry cell batteries) or batteries of different capacity, type, or brand.
13. Do not use the battery if it gives off an odor, generates heat, becomes discolored or deformed, or appears abnormal in any way. If the battery is in use or being recharged, remove it from the device or charger immediately and discontinue use.
14. Do not fit extra Audio, Anti-theft lock and other electro-device on vehicle by yourself.
15. Do not use more than one battery in parallel or in series.
16. Do not press on indicator button longer than few seconds.
17. Do not dispose the battery before completely discharge.
18. Do not charge the battery by charging voltage over 15.0V.
19. Do not charge the battery by charger with an automatic “desulfation mode” function.
20. Please fix the battery terminal with original screws and nuts securely. Battery and even vehicle may be damaged by the sparks because of the loose connect
21. The cranking performance will be affected when environment temperature lower than -5°C.
22. Keep out of reach of Children and Pets.



- **Up to 60% Lighter than Lead Acid Battery.**
  - **100% Maintenance Free.**
- **2000+ Extreme Cycle Life vs. 350 lead acid.**
  - **6-Minute Fast Recharge Time.**
  - **Mounts in Any Direction.**
- **Includes Built-In, Easy-to-Read Battery Capacity Indicator.**

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