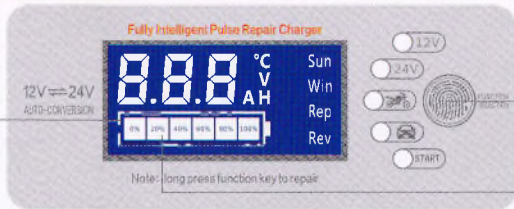
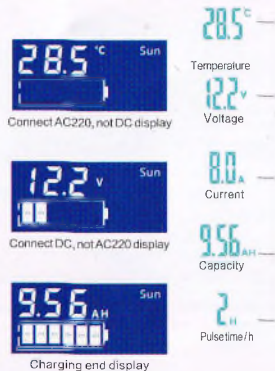


Screen display description



When the end of charging is displayed, gently press to switch the battery type, the current gradually increases, the maximum current of 12V is 8A, and the maximum current of 24V is 4A.

Long press 5 seconds pulse to repair. After entering pulse mode, press once to increase 1 hour repair time.

Long press to end pulse repair.

Electric quantity display

The working modes of display are as follows: (among them, °C, V, A and H are normally displayed according to the system status in summer and winter)

- ① Connected to AC220, not connected to battery: 1-3 digits display 1 type: temperature, 4-digit battery display empty box, 5-digit display temperature, season, repair, etc.
- ② Connected to AC220, battery reverse connection: 1-3 digits display 1 type: temperature, the fourth digit display empty box, the fifth digit display temperature, season, reverse connection.
- ③ AC220 access, the battery is correct, long press to enter the repair function interface: operation: after entering the interface, short press to adjust the time, from 2 hours, each short press increases 1 hour, the maximum cycle is 12 hours, long press to cancel the repair, no key 5 seconds later, start the repair procedure. 1-3 display: 2 start, short press to increase 1, the fourth battery display empty box, the fifth display: H, season, repair.
- ④ When connected to battery or not connected to AC220, 1-3 digits show two kinds in turn: temperature and battery voltage; the fourth digit shows the proportion of static capacity; the fifth digit shows: °C / V, in turn, season.
- ⑤ AC220 access, the battery is correct, normal charging: 1-3 digits show four kinds in turn: temperature, voltage, current, capacity; the fourth digit shows the percentage charging icon according to the voltage; the fifth digit shows: °C / V / A / ah, in turn, season.
- ⑥ AC220 access, the battery is correct, repair: 1-3 digits display four kinds in turn: temperature, voltage, current, capacity, the fourth digit battery icon display 0% - 100% horse lamp charging icon, the fifth digit display: °C / V / A / ah rotation, season.
- ⑦ AC220 access, the battery is correct, charging is completed: 1-3 digits display four kinds in turn: temperature, voltage, current, capacity, the fourth digit battery icon display capacity percentage battery icon, the fifth digit display: °C / V / A / ah in turn, season.

Product parameters

Dimensions: 186*85*80mm	N.W.: 0.6KG
Model: ZC12V 24V	Input line length: 100cm
Output line length: 65cm	Output peak current: 8A
Output voltage: DC14.6V-16V	
Scope of application: 12V/24V 2AH-150AH	
Use of lead-acid batteries (Lithium batteries are prohibited from charging)	

★Some of the above parameters are measured manually, there will be some errors, subject to the actual product.

Charging operation method

1. Check whether your battery parameters match the charger;
2. The red clamp connects the battery positive(+)and the Black clamp connects the battery negative(-);
3. After the clamp is connected, the charger LCD screen should be lit up. The display power and voltage indicate that the connection is correct (if not shown, see the troubleshooting bar;
4. Connect 220V power supply for household use, and the charger begins to charge automatically;
5. Choose the charging mode that matches your battery (see Mode Selection Column);
6. When the battery is fully charged, the battery voltage is displayed at the same time, indicating that the battery is fully charged.;
7. Complete charging and remove the charger.

Anti false trigger function: after adjusting the charging mode, connect the battery to start charging. The function key is locked and cannot be operated. Please disconnect the battery terminal and reset it.

Memory function: set the charging mode for the first time. After charging once, there is no need to reset the next time. The last charging mode can be memorized. The pulse mode needs to be turned on according to its own requirements each time.

模式选择 Mode selection



VEHICLE MODE

Suitable for general automobiles, agricultural vehicles, trucks and lead-acid batteries, (range: 12V24V 15AH-150AH)



START-STOP BATTERY MODE

Suitable for automobile batteries with start-stop function, GEL, AGM, (range: 12V24V 10AH-150AH)



MOTORCYCLE MODE

Suitable for all kinds of motorcycles and lead-acid batteries, (range: 12V24V 2AH-15AH)



REPAIR MODE

Old, idle for a long time, not charged, you can choose the repair mode to try to activate

Winter/summer Model



Win. The icon will be displayed below -10°C in winter mode.



Sum. This icon will be displayed in the summer mode above 28 degrees Celsius

Automatically adjust the suitable charging voltage according to different chargers detecting ambient temperature

Note: Temperature will be automatically detected without setting. The icon is not displayed in the constant temperature mode between -10 and 28 degrees Celsius. There is a certain error in temperature detection, which does not affect the normal charging.

Repair operation method

1. Connect the battery, plug in the power supply, press and hold "function selection" for 5 seconds to adjust to "repair mode". At this time, the LCD display will repair rep for 2h (2 hours), and the battery will flash 0% – 100% alternately. At this time, the repair time is 2 hours. Press "function selection" once to increase 1 hour, and the maximum repair time is 12 hours. After adjusting the repair time for 5 seconds, the pulse repair is started.
2. Motorcycle batteries are recommended to be repaired for about 5 hours and automobile batteries for about 8 hours (the longer the batteries are not heated, the better the effect).
3. If you need to stop repairing, adjust or remove the charger directly according to the "Selection Mode".
4. When repairing, pay attention to the temperature of the battery, if the scald should be terminated in advance! The longest time of repairing is 12 hours, after 12 hours, it will automatically switch to charging mode.
5. The battery can be fully charged after a long time of repair. If the battery shows 100% after switching to charging mode, the battery is fully charged. After charging, you can pull out the plug to check whether the power is fully charged normally!

Manufacturer: Tianchang Zhuchao Electronic Co., Ltd.

Troubleshooting of common charging problems

1. Charger connected to battery screen not displayed

Cause: wrong connection of positive and negative electrode, bad clamp of positive and negative electrode, or battery without electricity.

Solution: first check whether the positive and negative poles of the battery are wrongly clamped, check whether the battery has electricity, and check whether the clamp is firmly clamped.

2. Charger alarm

Cause: wrong connection of positive and negative poles.

Solution: check whether the positive and negative poles of the battery are wrongly clamped, and change the position of the positive and negative pole clamps (if there is no wrong clamp, it is the reverse polarization of the positive and negative poles. It is recommended to replace the battery.

3. The battery has no power or insufficient power, but it shows full when charging

Reason: feed battery, vulcanization battery, low voltage, long idle battery, because of the battery internal resistance, or battery capacity reduction, charging will be instantaneous to full voltage value can not be filled, so will show full!

Solution: you can press the repair charge button, use repair mode to try to repair the charging activation battery!

4. Connect the battery to display the power, but plug in the power does not work, no response

Reason: there is no power input.

Solution: check whether the 220 V power supply has power, try to change more sockets!

5. Long term dissatisfaction

Cause: if the battery is not fully charged for a long time, it will be charged all the time because of the sulfurization, feeding or water shortage of the battery and the voltage value can not be charged. This kind of battery may be hot when charging!

Solution: if it is hot, stop charging to prevent the battery from bulging. If it is a water and electricity battery, check whether the battery is short of liquid!