

BATTERY CHARGER

This Manual Is Only Applicable To Models Below:

BC116-BC117-BC118



*Please read this manual in detail before use

USER MANUAL

Description of charger components



- | | | |
|-------------------------|---|---------------------|
| 1. Mode Switch Button | A. Standard Mode | G. Abnormal State |
| 2. Charger Display | B. AGM/GEL Mode | H. Power Display |
| 3. Black Clip (-) | C. Motorcycle Mode | W. Winter Icon |
| 4. Red Clip (+) | D. LIFEPO4 Mode | S. Summer Icon |
| 5. Power Input Cable | E. Repair Mode | I. Repair Mode Icon |
| 6. Mode Indicator Light | F. Temperature, Voltage and Current Display | |

Charger Operation Method

1. Check whether battery parameters match with the charger;
2. connect the output cable clips to the battery, red clips to "+", and black clips to "-";
3. Plug the charger into power source;
4. Choose the suitable mode for the battery;
5. When the charger displays "OFF", it means that the battery has stopped charging. Then, disconnect the power supply, check the battery capacity and remove the clips from the battery.

Charging Mode Selection



STD Mode

: Applicable to ordinary lead-acid batteries and maintenance-free batteries. After about 5 minutes, it automatically switches to the charging state. The screen displays current, voltage, and temperature alternately. After charging is completed, "FUL" is displayed and the output stops to prevent overcharging.



AGM/GEL

: Suitable for AGM/GEL/EFB starting batteries. After starting, the screen will displays current, voltage and temperature alternately. When charging is completed, it will displays "FUL" and stop output to prevent overcharging.



Motorcycle Mode

: Suitable for motorcycle and other types of small battery. After startup, the screen will displays current, voltage, and temperature alternately. When charging is completed, "FUL" will be displayed and the output will stop to prevent overcharging.



LIFEPO4

: Suitable for lithium iron phosphate batteries with BMS protection board. After startup, the screen will displays current, voltage, and temperature alternately. When charging is completed, "FUL" will be displayed and the output will stop to prevent overcharging.



REPAIR

: Suitable for problem batteries that cannot be charged normally. In this mode, the screen only displays "PUL". *Lithium batteries cannot be repaired. If the lead-acid battery becomes seriously heated during the repair process, then the repair should be stopped immediately!



SUPPLY

: Force to charge the batteries that cannot be charged in other modes (battery heating needs to be observed), and can also be used as a DC power supply to power any DC12V equipment, such as a car refrigerator, etc., or connected to the positive and negative poles of the car as a data holder before replacing the battery.

***Supply Mode:** Press the mode switch button for 3 seconds, the screen display SUP, the supply mode is on. Press mode switch button again to exit the supply mode.

Temperature Compensation

Winter: ❄ winter icon displays automatically when the room temperature is below 10°C

Summer: ☀ summer icon displays automatically when the room temperature is higher than 27°C.

When the room temperature is within 10-27°C, no icon displays. This battery charger has the ability to automatically detect the ambient temperature and adjust the output voltage and current accordingly to prolong the battery life.

Product Parameter

H-6C

H-8C

H-10C

H-15C

Input voltage : AC100~240V 50/60HZ

Output voltage: 3.3V~14.7V

Output current: 0~6A 0~8A 0~10A 0~15A

Dimension: 215*111*65mm

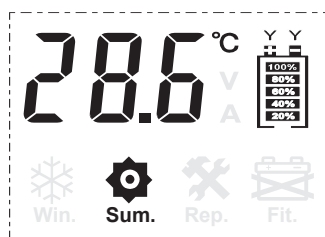
Net weight: 470g 520g 580g 600g

Charging Schedule

CHARGING TIME ESTIMATE

(Ah)	12V 6C	12V 8C	12V 10C	12V 15C
20(Ah)	2.5	2	1.5	1
40(Ah)	5.5	4	3.2	2
60(Ah)	8	6	4.5	3.5
100(Ah)	13.5	10	8	5.5
150(Ah)	20	15	12	8
200(Ah)	26.5	20	16	10.5
400(Ah)	53.5	40	32	21.5

***When the battery capacity below 40Ah, try to charge in motorcycle mode.**



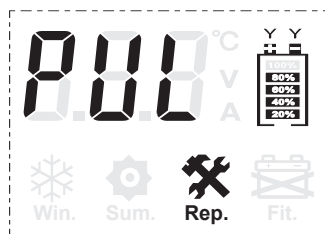
Temperature Display



Charging Voltage



Charging Current



Repair Mode



Fully Charged



Automatically Shut Down In 2 Hours
After Fully Charged



Error Alarm



Icon Blinks When Connected
Improperly



Normal Charging When Current,
Voltage And Temperature Display
In Rotation, And Power Level
Blinks Successively

1. The battery is low, but charger displays (FUL) fully charged when charging

Reason: The voltage of the battery will become too low after long period non-use or idle, the battery can be vulcanized, so that capacity is reduced, and the internal resistance of the battery is too large, the full voltage value will be instantly reached during charging and it makes battery cannot be charged, so it displays "FUL"!

Solution: Press the "Mode" button 3 times to switch to the Repair Mode after powering on, so that charger can try to repair and activate the battery.

2. The connected battery shows the voltage but there is no response when plugged in

Reason: This is because the charger has no mains input.

Solution: Check whether the socket is electric or try to replace it.

3. The AC power supply is powered on, and the battery LCD screen blinks

Reason: The battery has zero power at all, and the charger cannot recognize the battery.

Solution: Try charging in parallel with a charged battery, or replace the battery.

4. Dissatisfied for a long time

Reason: The battery will always be charging due to vulcanization, power feeding, water shortage, or the off-cell voltage value is less than the full-charge voltage, and this type of battery may be heat up during charging!

Solution: If the battery is seriously heat up during charging, stop charging. If it is a water battery, check whether the battery is short of liquid!

Safety Precautions

1. Read the user manual carefully before using the charger.
2. Ensure proper ventilation and avoid charging in a confined space.
3. Only use the charger with compatible battery types as specified.
4. Avoid exposure to water or extreme temperatures.
5. Keep children and pets away from the charger during operation.
6. Disconnect the charger from power source before connecting or disconnecting from the battery.
7. If any abnormality or damage is occur, stop using and contact customer support.
8. Follow the vehicle manufacturer's guidelines for battery maintenance and charging.

Reminder

Please read the safety precautions above carefully. If the precautions above are violated, the charger may be damaged or personal and property losses may be caused. If the product is damaged due to violate the precautions above, there will be no longer warranty service provided ; And we are not responsible for the personal and property losses that caused by it. We must be aware of it!