



Automatic Battery Charger

For 6V and 12V Lead-acid batteries

IMPORTANT SAFETY INSTRUCTIONS

WARNING - BURST HAZARD

Do not use the unit for charging dry-cell batteries that are commonly used with home appliances. These batteries may burst and cause injury to persons and damage property. Use the unit for charging/boosting a LEAD-ACID battery only.

WARNING - SHOCK HAZARD

- Do not operate unit with damaged cord or plug; or if the unit has received a sharp blow, been dropped, or otherwise damaged in any way. Do not disassemble the unit; incorrect reassembly may result in a risk of electric shock or fire.
- NEVER submerge this unit in water; do not expose it to rain, snow or use when wet.
- To reduce risk of electric shock, disconnect the unit from any power source before attempting maintenance or cleaning.

WARNING - RISK OF EXPLOSIVE GASES:

- Working in the vicinity of a lead acid battery is dangerous. Batteries generate explosive gases during normal battery operation.
- If battery acid contacts skin or clothing, wash immediately with soap and water for at least 10 minutes and get medical attention immediately.
- Do not operate this unit in a closed area or restrict ventilation in any way.

PRODUCT FEATURES

- For all 6V and 12V lead acid batteries (WET, MF, AGM and GEL);
- Charging voltage auto select;
- Charging current selection;
- No risk of over charging; Charger will go into maintenance mode for long term charging.
- Electronically safe against user error with LED indicator;
- Spark proof;
- Over heat protection;
- Full protected against short circuit and wrong connections;
- With LED indicators;
- 12V battery recovery:
- For 12V batteries voltage lower than 8V, you can use the charger to recover the battery.

Recovery Operation Steps:

1. Plug in the AC power without the connection with the battery;
2. Press the MODE button for 3~5 seconds until the 12V LED indicator comes on;
3. Now connect the output clamps/terminal rings with the battery correctly or use cigarette lighter adapter. Cigarette lighter of accessory socket must be live with car off to work.
4. The charger begins charging with 1.5A low current to recover the battery, which terminates when the voltage reaches to $10.5V \pm 0.25V$, and then it switches over to regular charging mode.

OPERATING INSTRUCTIONS

1. Connecting the terminal rings/clamps directly to the corresponding connectors on the battery posts.



Note: Make sure correct polarity connection before plugging in the AC power.

- Position the **RED** terminal on the **POSITIVE** post connector
- Position the **BLACK** terminal on the **NEGATIVE** post connector




2. Connect the AC power cord with the AC power outlet.

- The Power LED indicator turns on after the connection. 

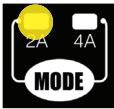
- The charger will automatically select the right voltage according to the battery voltage type and the corresponding LED indicator will turn on.

6V Batteries		On
12V Batteries		On

- The charger will automatically select the right voltage according to the battery voltage type and the corresponding LED indicator will turn on.

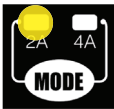
Reverse Polarity Hook UP		On
Bad Batteries cannot be charged		Flashing for 6V
		Flashing for 12V

- Rated maximum 2A charging current for **6V batteries**; the 2A current LED indicator will turn on.

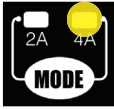


- Rated maximum 4A charging current for **12V batteries** es in speed charge mode, and also can choose 2A slow charge rate by pressing the Mode Button. The corresponding LED indicator will turn on.

For 12V batteries:



Slow Charge



Fast Charge

- Charging status LED indicators to display the battery charging level.
- The charge LED on when charging mode.



- The FULL LED on when the battery is fully charged and go to the maintenance mode.



- Disconnect the AC power cord from the AC power outlet when fully charged. Then disconnect the connection with the battery.

Note:

ALWAYS disconnect the AC power cord from the AC power outlet before connecting (or disconnecting) the charger to (or from) the battery.