

## Automatic Battery Charger 6/12V 6A

### SAVE THESE INSTRUCTIONS

This manual contains important safety and operating instruction. To reduce the risk of injury, please read all instructions and follow them with each use of this product.

### 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. For this reason, it is of the utmost importance that each time before using the charger you read this manual and follow instructions exactly.
- To reduce the risk of battery explosion, follow these instructions and those published by the battery manufacturer and manufacturer of any equipment you intend to use in the vicinity of the battery.
- This equipment employs parts that produce arcs or sparks. Therefore, if used in a garage or enclosed area, the unit MUST be placed not less than 18 inches above the floor.
- **THIS UNIT IS NOT FOR USE BY CHILDREN AND SHOULD ONLY BE OPERATED BY ADULTS.**

#### **CAUTION - TO REDUCE THE RISK OF INJURY OR PROPERTY DAMAGE:**

- Pull cord by plug rather than cord when disconnecting the unit from the power source.
- NEVER ATTEMPT TO JUMP-START OR CHARGE A FROZEN BATTERY.
- When working with lead acid batteries, always make sure immediate assistance is available in case of accident or emergency.
- Always have protective eyewear when using this product: contact with battery acid may cause blindness and/or severe burns. Be aware of first aid procedures in case of accidental contact with battery acid.
- Have plenty of fresh water and soap nearby in case battery acid contacts skin.
- If battery acid contacts skin or clothing, wash immediately with soap and water for at least 10 minutes and get medical attention immediately.
- Never smoke or allow a spark or flame in vicinity of vehicle battery, engine or battery charger.
- Remove personal metal items such as rings, bracelets, necklaces and watches when working with a lead acid battery. A lead acid battery can produce a short circuit current high enough to weld a ring, or the like of a metal, causing a severe burn.
- Never allow battery acid to come in contact with this unit.
- Do not operate this unit in a closed area or restrict ventilation in any way.
- **FIRST AID – SKIN:**

If battery acid comes in contact with skin, rinse immediately with water, and then wash thoroughly with soap and water. If redness, pain, or

irritation occurs, seek immediate medical attention.

**• FIRST AID –EYES:**

If battery acid comes in contact with eyes, flush eyes immediately, for a minimum of 15 minutes and seek immediate medical attention.

**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;
- 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;
4. The charger begins charging with 1.5A low current to recover the battery, which terminates when the voltage reaches to 10.5V ± 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.

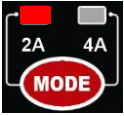
- The Power LED indicator turns on after the connection. 
- The charger will automatically select the right voltage according to the battery voltage type and the corresponding LED indicator will turn on.

6V batteries	
12V batteries	

- The Error LED indicator will turn on for incorrect polarity/Faulty.

Reverse polarity hook up	 ON
Bad batteries cannot be recharged	 Flashing for 6V batteries
	 Flashing for 12V batteries

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

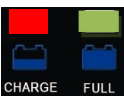


- Rated maximum 4A charging current for **12V batteries** in speed charge mode, and also can choose 2A slow charge rate by press the Mode Button. Corresponding LED indicator will turn on.

**For 12V batteries:**

Slow Charge	Fast Charge

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

**TECHNICAL DATA:**

<b>Input Voltage:</b>	220 – 240 VAC ~ 50/60 Hz
<b>Output Voltage:</b>	6V (7.2V ± 0.2V) / 12V (14.4V ± 0.25V)
<b>Surrounding Temperature:</b>	-10°C do 40°C
<b>Max Power:</b>	72 W
<b>Charging Current:</b>	6 A / 3 A / 1.5 A
<b>IP-class:</b>	IP 65