



## BATTERY CHARGER

ITEM: 26807



## OWNER'S MANUAL AND SAFETY INSTRUCTIONS

SAVE THIS MANUAL: KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATING, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL NEAR THE ASSEMBLY DIAGRAM (OR MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO NUMBER)

FOR QUESTIONS PLEASE CALL OUR CUSTOMER SUPPORT: 909.628.0880 MON-FRI 9AM TO 3PM PST

## GENERAL SAFETY WARNINGS

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

- Batteries generate explosive gases during normal operation. Use in well-ventilated area.
- Consider having someone close enough or within the range of your voice to come to your aid when you work near a battery.
- **DO NOT** smoke, strike a match, or cause a spark in vicinity of battery or engine. Avoid explosive gas, flames and sparks.
- Remove all personal jewelry, such as rings, bracelets, necklaces, and watches while working with a vehicle battery. These items may produce a short-circuit that could cause severe burns.
- Be extra cautious to reduce risk of dropping a metal tool onto the battery. It might spark or short-circuit a battery or other electrical hardware which may cause an explosion or fire.
- Wear complete eye protection, hand and clothing protection. Avoid touching eyes while working near a battery.
- Study all battery manufacturer's specific precautions such as removing or not removing cell caps while charging and recommended rates of charge.
- Clean battery terminals before connected with the charger. Be careful to keep corrosion from coming in contact with eyes.
- When it is necessary to remove a battery from vehicle to charge, always remove grounded terminal from battery first. Make sure all accessories in the vehicle are off in order to prevent an arc.
- It is NOT intended to supply power to an extra-low-voltage electrical system or to charge dry-cell batteries. Charging dry-cell batteries may burst and cause injury to persons and property.
- **NEVER** charge a frozen, damaged, leaking or non-rechargeable battery.
- If battery electrolyte contacts skin or clothing, wash immediately with soap and water. If electrolyte enters eye, immediately flood eye with running clean cold water for at least 15 minutes and get medical attention immediately.
- **DO NOT** place the charger in the engine compartment or near moving parts or near the battery; place as far away from them as DC cable permits. NEVER place a charger directly above a battery being charged; gases or fluids from battery will corrode and damage charger.
- **DO NOT** cover the charger while charging.
- **DO NOT** expose to rain or wet conditions.
- Connect and disconnect DC output only after setting AC cord from electric outlet.
- Use of an attachment not recommended or sold by the manufacturer may result in a risk of fire, electric shock or injury to persons.
- **DO NOT** overcharge batteries by selecting the wrong charge mode.
- To reduce the risk of damage to electric plug and cord, pull by the plug rather than the cord when disconnecting charger.
- To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.
- Operate with caution if the charger has received direct hit of force or been dropped. Have it checked and repaired if damaged.
- Any repair must be carried out by the manufacturer or an authorized repair agent in order to avoid danger.

# OPERATION

- 1) Identify polarity of battery posts. The positive battery terminal is typically marked by these letters or symbol (POS,P,+). The negative battery terminal is typically marked by these letters or symbol (NEG,N,-).
  - 2) Do not make any connections to the carburetor, fuel lines, or thin metal parts.
  - 3) Identify if you have a negative or positive grounded vehicle. This can be done by identifying which battery post (NEG or POS) is connected to the chassis.
  - 4) For a negative grounded vehicle (most common): connect the RED POSITIVE battery clamp first to the positive battery terminal, then connect the BLACK NEGATIV battery clamp to the negative battery terminal or vehicle chassis.
  - 5) For a positive grounded vehicle (very uncommon): connect the BLACK NEGATIV battery clamp first to the negative battery terminal, then connect the RED POSITIVE battery clamp to the positive battery terminal or vehicle chassis.
  - 6) When disconnecting, disconnect in the reverse sequence, removing the negative first (or positive first for positive ground systems).
- NOTICE:** If battery clamps are reversely connected to battery terminals, the ERROR LED will be on. Exchange the battery clamps to solve this problem.

## ABOUT THE CHARGER

- 1) The Charger is perfect for keeping all of your 12V and 6V lead-acid batteries in top condition, including WET (Flooded), GEL, MF (Maintenance-Free) and EFB (Enhanced Flooded Battery) .
- 2) Built-in intelligent microprocessor makes charging and maintaining faster, easier and safer.
- 3) This charger has safety features, including spark proof, protection for reverse polarity, short circuit, overcurrent and overcharge.
- 4) It has auto-memory, which returns to last selected mode when restarted.
- 5) When Emerald Green LED is flashing, the charger is in bulk charge at a constant 1000mA rated current output. When Emerald Green LED turns to solid, the battery is fully charged.
- 6) Since this is a battery maintainer and you will keep it connected with vehicle battery for a long time, do monitor monthly. Follow the battery manufacturer's instructions for adding distilled water if applicable.
- 7) Following is the charger's technical specification:

## SPECIFICATIONS

<b>AC Input</b>	120VAC, 50- 60Hz, 0.25A
<b>DC Output</b>	12VDC, 0.75A; 6VDC, 75A
<b>Power (IN)</b>	Variable Power, 25W Max
<b>Start Voltage</b>	> 1V
<b>Housing Protection</b>	IP60
<b>Battery Type</b>	All Types of 6V and 12V Lead-acid Batteries
<b>Accessories Included</b>	Clamp Connectors, Ring Connectors
<b>Ambient Temperature</b>	0°C ~ +40°C

## CONNECTING TO THE BATTERY

- 1) Identify polarity of battery posts. The positive battery terminal is typically marked by these letters or symbol (POS,P,+). The negative battery terminal is typically marked by these letters or symbol (NEG,N,-).
- 2) Do not make any connections to the carburetor, fuel lines, or thin metal parts.
- 3) Identify if you have a negative or positive grounded vehicle. This can be done by identifying which battery post (NEG or POS) is connected to the chassis.
- 4) For a negative grounded vehicle (most common): connect the RED POSITIVE clamp / ring connector first to the positive battery terminal, then connect the BLACK NEGATIV clamp / ring connector to the negative battery terminal or vehicle chassis.

# OPERATION

- 5) For a positive grounded vehicle (very uncommon): connect the BLACK NEGATIV clamp / ring connector first to the negative battery terminal, then connect the RED POSITIVE clamp / ring connector to the positive battery terminal or vehicle chassis.
- 6) When disconnecting, disconnect in the reverse sequence, removing the negative first (or positive first for positive ground systems).
- 7) Follow these steps when using 12V accessory plug (Charger does not have this accessory): keep the vehicle hood open. Connect the end of the 12V accessory plug to the charger; insert the 12V accessory plug into the vehicle's 12V outlet. If the vehicle's ignition key has to be on in order for the 12V outlet to supply / receive power, turn the key, without starting the engine.
- 8) A marine (boat) battery must be removed and charged on shore. To charge it on board requires equipment specially designed for marine use.

## CHARGING MODES

This battery charger has three modes: Standby, 12V and 6V. Do not operate the charger until you confirm the appropriate charge mode for your battery.

<b>Standby</b>	Not charging or providing any power (Green LED)
<b>12V</b>	Charging and Maintaining 12V WET/GEL/MF/EFB batteries (Blue LED)
<b>6V</b>	Charging and Maintaining 6V WET/GEL/MF/EFB batteries (Green LED)

**NOTICE:** Make sure your battery to be charged / maintained is in good condition. The Charger cannot be used to recover severely discharged batteries or dead batteries. How to deal with the batteries which are deeply discharged, but in good condition?

1. Make sure the battery is in good condition (not dead) and was deeply discharged only. You can use the battery analyzer to get the result if you have.
2. Jumpstart your vehicle or use a battery charger with recovery function to activate the battery until the battery voltage increases to normal condition. For 12V batteries, the normal voltage is above 8 volt at least; for 6V batteries, the normal voltage is above 4 volt at least.
3. Use the Charger / Maintainer do the rest charging and maintaining work.

## LED COMMUNICATION OF ABNORMAL RESULTS

<b>Solid Red Warning! LED</b>	Reverse Polarity	Exchange the red and black clamps or ring terminals to the correct battery posts
<b>Flashing Red Warning! LED</b>	1) Open-circuit 2) Dirty Battery Posts 3) Dead Battery (voltage below 1V) 4) Output Short Circuit	1) Connect the red and black clamps or ring terminals to the battery posts 2) Clean the battery posts 3) Replace the battery with a new one immediately 4) Disconnect red and black output terminals
<b>Slow flashing Red Warning! LED + 6V LED</b>	Charging in 6V Mode(s) for 12V battery	Please do manually press Mode button to choose correct charge mode. CAUTION: If you choose 12V Mode(s) for 6V battery, the 6V battery will be damaged!
<b>Quick flashing Red Warning! LED + Corresponding charging mode LED</b>	Battery cannot store electric charge during charging process	Replace the battery with a new one immediately
<b>Only corresponding charging mode LED + Charging LED is OFF</b>	In Desulphation Process	_____
<b>Red Warning! LED light flashes 2x stop for 3secs, 2x stop for 3 secs... + 6V LED</b>	Battery cannot be recovered through Desulphation Process	Replace with a new battery



# DISCLAIMER

## PLEASE READ THE FOLLOWING CAREFULLY

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**Record Product's Serial Number Here:** \_\_\_\_\_

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

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**SAVE THESE INSTRUCTIONS.**

### Questions, issues or missing parts?

Before returning to your retailer, our customer service team is here to help.



Call Us: 909.628.0880

Email Us: [customer@xtremepowerusa.com](mailto:customer@xtremepowerusa.com)

Hours of Operation: 9am - 3pm PST Monday - Friday

**PRODUCT MADE IN CHINA**