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Instruction Manual For Battery Charger 207C



Rated Input: AC 220V-240V

Frequency: 50-60Hz

Input Power: 40W

Rated Output: DC 12V 2A

Not for commercial or industrial use



GENERAL SAFETY WARNINGS

- This appliance is not intended for use by children or by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons, in order to avoid a hazard.
- Do not use to charge non-rechargeable batteries.
- During charging, batteries must be placed in a well ventilated area.
- The charger must work on AC 220V to AC 240V Voltage.
- Do not allow the red and black clip to touch. This could cause the charger to short circuit.
- Always store the charger in a safe, dry location.
- Examine the battery charger regularly for damage, especially the cord, plug and enclosure. If the battery charger is damaged, it must not be used until it has been repaired.
- Caution; Not suitable to be used by Children

OPERATING INSTRUCTIONS

Please read these instructions carefully before use.

The 207C battery charger is designed to charge 12 volt lead acid batteries. This charger is simple to use and operate and an easy solution to charge your flat battery in your car, boat or motorcycle. Built in internal protections such as the thermal overload switch, cuts off the current in an event of a short circuit overload or reversed polarity connection to the battery. This makes this unit safe to use as well as the addition of double insulation for added safety.

Please ensure that you read all important safety information and operating instructions before using this charger.

LED METER

The visual display meter has 3 visible LEDs (Light Emitting Diodes) that illuminate to register the connected, charging and charged status of your battery.

The red and yellow LEDs will illuminate as the battery is being charged. When all three LEDs are illuminated your battery is charged. The green LED is the guide as to the charge status of your battery.

CHARGING 12 VOLT BATTERIES

Note: the output leads are fitted with coloured insulated clips for easy identification of polarity – RED for POSITIVE and BLACK for NEGATIVE

1. Ensure the power point is switched **OFF** before connecting or disconnecting the charger to a battery.
2. If possible remove the battery from the vehicle, if not, ensure that the battery leads are disconnected to protect the electronic systems within the vehicle.
3. Remove the battery filler caps and check the liquid in the cells, topping up with distilled water if required to ensure the liquid is at least 6mm above the top of the plates. Note that the filler caps should not be replaced until the charging process has been completed. This will aid in the dispersion of battery gasses during the charging process.
4. Ensure the polarity is correct and connect the clips to the battery terminals assuring there is a firm connection. Once connected the red LED 'Connected' light will light up to indicate that the battery charger is connected correctly to your battery. If the red LED does not illuminate check the below
 - Polarity check – ensure the positive (RED) clip is connected to the positive (+) battery terminal
 - Check the contact between the terminals and the clips to ensure sufficient contact is made
 - Note that your battery may be completely flat or have damaged cells meaning no charge can be applied
5. Once the battery charger is plugged into a regular 240V household power point and the power is switched 'ON' the red and yellow LEDs will illuminate to indicate the battery is being charged
6. Once the green LED is illuminated the battery is charged. Switch the power 'OFF' before removing the clips from the battery

CHARGING TIMES

1. If the battery is free from issues it should be sufficiently charged to start a vehicle once the green LED indicator is illuminated
2. For the battery with different capacities, different brands and in different using stage, the charging time will be varies. In general, after charging 12-15 hours, the battery can be used normally.
3. Motorcycle and smaller capacity batteries may need a shorter time frame of around 4-6 hours to restore a battery to peak condition.

If your battery is dead, often all three LED's will illuminate when first connecting the charger and switching on. After several hours, the green LED should eventually switch off, and will later illuminate when the battery is charged.

This situation can occur when the battery is in a deep discharged state (under 9volts).

If all three LED lights remain illuminated after several hours when first connected, please consult an Auto Electrician to have your battery tested as there could be a fault with the battery.

OVERLOAD

Prolonged charging of deep discharged batteries or attempting to charge a battery larger than 80 amp hours can cause the charger to overheat. If this occurs, the charger's thermal overload switch will activate. The LED meter will blink on and off in short intervals. This cycling will not damage either the charger or the battery, however if this situation occurs for more than 2 hours, please switch off the charger and disconnect from the battery and wall outlet. It is advisable if this occurs whilst charging a battery less than 80 amp hours, to have your battery checked by an automotive electrician.

LOW MAINTENANCE BATTERIES

It is advisable to not overcharge a low maintenance battery. Disconnect the charger as soon as the green LED illuminates indicating a full charge.

Low maintenance batteries are easily recognizable as they do not have removable filler caps.

Do not attempt to recharge a sealed lead acid battery, commonly found in UPS (uninterruptible power supplies) devices, mobility scooters, alarm systems etc. This charger is not designed for these types of batteries.

SAFETY INFORMATION

WARNING – Working in the vicinity of a lead acid battery is dangerous due to the emission of explosive gases. A spark, cigarette or naked flame such as lighter or matches can ignite these explosive gases. Care should always be taken.

- keep all naked flames and potential sparks away from the battery at all times
- Never smoke or light a cigarette near a battery
- Extreme care is required when handling metal objects and tools such as jewellery, rings or watches. When a metal object touches a battery terminal it may cause sparks or serious heat burns to the user or wearer of the object and those around them
- Never place tools on or around the battery in case they move and come into contact with the top of the battery

- It is advisable to always wear protective eye glasses when testing or working around a lead acid battery
- Ensure the area is ventilated when working on a battery and never test or charge a battery in a confined area with limited ventilation
- Ensure the charger is not exposed to water when in use or plugged in
- The appliance is not to be used by children or person with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction
- Children being supervised not to play with the appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Warning: Never charge non-rechargeable batteries;
- The battery terminal not connected to the chassis has to be connected first. The other connection is to be made to the chassis, remote from the battery and fuel line. The battery charger is then to be connected to the supply mains.
- After charging, disconnect the battery charger from the supply mains. Then remove the chassis connection and then the battery connection.
- During charging, the battery must be placed in a well ventilated area.

Lead acid batteries contain Sulphuric Acid. If acid contacts the skin or clothing flush immediately with ample running water.

IN CASE OF ACCIDENTAL EYE CONTACT WITH BATTERY ACID FLUSH EYES FOR A MINIMAL 5 MINUTES WITH CLEAN WATER. EYES SHOULD BE SUBMERGED UNDER WATER AND OPENED TO FLUSH EFFECTIVELY. IT IS RECOMMENDED TO IMMEDIATELY SEEK MEDICAL ATTENTION AND DO NOT USE OR DROPS OR ANY OTHER MEDICATION UNLESS INSTRUCTED BY A DOCTOR.

IMPORTANT NOTES

- The 207C is designed to charge 12 volt automotive lead acid batteries in the capacity range of between 15-80 amp hours. Most small car batteries are in this range
- Do not attempt to charge other types of batteries such as larger 4WD or commercial sizes, GEL, sealed batteries (SLA) or deep cycle configurations.
- It is recommended that this charger is not to be used by children and should be kept out of reach whilst in use.
- After charging, switch off the mains power supply. Remove the negative clamp first then the positive last.

MAINTENANCE:

(1). Check the power cord periodically and if it's damaged please replace it by an

authorized service facility.

(2). Keep the handle dry, clean and free from oil and grease.

(3). Ensure that the ventilation slots are kept clean and free from dust at all times.

Blocked ventilation slots can cause overheating and damage to the motor.

(4). After use, please store in a dry & clean area.



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