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BCGP-1

The BCGP-1 was designed for charging a variety of SLA (sealed lead acid) batteries, widely used in motorbikes, cars and several other vehicles very easily. Please read this user manual and follow the instructions carefully before using the charger.

SAFETY FEATURE

- Electronically safe against user errors. The charger will not damage vehicle electronics. If this unit is accidentally left on a battery for a long period of time, damage will not. There is not a risk of overcharging a battery.
- Full protection against wrong connection and against short circuit ensures safe charging operation.
- It has a spark protection mechanism.
- Dust and Splash Proof.

BATTERY TYPES

The following recommendations should be considered as guidelines. In the event of uncertainty, always refer to the battery manufacturer's recommendations.

This unit is suitable for charging all types of 12V lead-acid batteries; open batteries, MF, AGM, and most GEL-batteries. Battery sizes from 1.2 to 32H. The charger can maintain batteries up to 120AH.

CAUTION

- This unit is designed to charge 12V lead-acid batteries from 1.2 to 32AH. However the charger can maintain batteries up to 120AH. Do not use the charger for any other purpose.
- This charger is not intended for use by young children or infirm person.
- Use safety glasses, gloves, and protective clothing and turn your head when connecting or disconnecting a battery.
- Battery acid is corrosive. Rinse immediately with water if acid comes into contact with skin or eyes. Seek medical attention.
- Do not use the charger with damaged cables. It must be repaired by an authorized technician.
- While charging, a battery can emit explosive gases, so it is important to avoid sparks or smoking in the immediate area.
- Avoid explosive and flammable substances such as fuel or solvents and keep providing proper ventilation during charging.
- Do not charge a damaged battery.
- Do not charge a frozen battery.
- Do not place the charger on the battery while charging.



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- Before charging, make sure the input is within the stipulated rating level, otherwise charging performance may be seriously affected.
- Always check that the charger has gone over to maintenance charging mode before leaving the charger unattended and connected for long periods of time. If the charger had not gone over to maintenance charging within 3 days, this is an indication of a problem. In this case the charger must be disconnected manually.
- Disconnect the battery from the charger when charger is not connected to the power supply. This will reduce back drain current.
- Charging must be stopped immediately if battery is found to be too hot or leaks out liquid during charging.
- Only mount the charger on a flat surface.
- All batteries fail sooner or later. A battery that fails during charging is normally taken care of by the chargers advanced control, but certain uncommon errors in the battery can still arise. Don't leave the battery charger unattended for long periods of time.

CHARGING

Charging batteries mounted in a vehicle:

1. The power cord should be disconnected before connecting or disconnecting the battery leads.
2. Identify the pole that is grounded (attached to the chassis). Ground is normally connected to the negative terminal.
3. Charging a negatively grounded battery: Connect the red wire to the positive pole of the battery and the black cable to the vehicle's chassis. Be careful not to connect the black cable in the vicinity of a fuel pipe or battery.
4. Charging a positively grounded battery: Connect the black wire to the negative pole of the battery and the red cable to the vehicle's chassis. Be careful not to connect the red cable in the vicinity of a fuel pipe or battery.

Charging a battery not connected to a vehicle:

1. The power cord should be disconnected before connecting or disconnecting the battery lead.
2. Connect the red wire to the positive pole of the battery and the black cable to the negative pole.

Connecting the provided cables with eyelet terminals:

1. Make sure that the cable is not being pinched or in contact with warm surfaces or sharp edges. When the cable is mounted on the battery, it should not be connected to the charger.
2. Connect the eyelet terminals to the battery's poles – the red cable to the positive pole and the black cable to the negative pole. After this, the quick contact can be connected.



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Reverse Polarity Protection

If the battery cables are connected incorrectly, the reverse polarity protection will make sure that the charger and the battery are not damaged. In this case, the red warning lamp will be lit.

1. Once you have checked that the battery leads have been connected correctly, you can start charging by connecting the charger to the wall socket. If the battery leads have been connected incorrectly the polarity reversing protection will ensure that neither the charger nor the battery will be damaged. The fault indicating lamp will come on. In this case, start from point 1 under "Connecting the charger"
2. The charging lamp or the maintenance charging lamp will now come on. When the maintenance charging lamp comes on, the battery is fully charged. When the battery's voltage drops the charger will send a pulse to the battery. The pulse length depends on how much the voltage has dropped. The charger can be connected for months.
3. If none of the lamps on the charger come on, this may be due to the connection to the battery or chassis is poor or that the battery is faulty or had a too low terminal voltage. Another cause may be a lack of voltage in the wall socket.
4. Charging can be stopped at any time by disconnecting the charger's power cord. Always disconnect the power cord before disconnecting the battery leads. When you stop charging a battery fitted in a vehicle you should always disconnect the battery lead from the chassis before you disconnect the other battery lead.
5. If the charging lamp and maintenance charging lamp alternately flash:
 - If the lamps flash a few times per second, the battery is probably sulphate. If the lamp flashes more than 60 minutes, the battery should be replaced.
 - If the flashing occurs with a few minutes interval then the battery has a high self-discharge and may need to be replaced.

TEMPERATURE PROTECTION

This unit is protected from being over heated. The power will be reduced if the ambient temperature is raised.

MAINTENANCE

The charger is maintenance free. **NOTE:** Disassembly of the charger is not permitted and will void the warranty. If the power cord is damaged, it must be replaced. The case can be cleaned with a soft damp cloth and mild cleanser. The charger should be disconnected from the power while cleaning.