



OPERATING INSTRUCTIONS: FULLY AUTOMATIC BATTERY CHARGER

MODELS: 12V, 24V, 36V UND 48V

DESCRIPTION

The charger is a fully automatic charger designed to charge all types of lead-acid batteries (VRLA, Gel, AGM or wet lead-acid batteries). The charger can remain connected to the batteries after full charge (green light) without damaging them. In this stand-by mode (after full charge of the batteries) the charger will operate at minimum power, get the full. This is realized by a controller that controls the charge level of the battery and adapts the charging current to the needs of the battery.

INSTRUCTIONS

Read the safety instructions before use!

1. For models with AC selector switch (position for 115V on one side, position for 230V on other side), make sure that the AC selector switch is set to the correct AC mains voltage (115VAC or 230VAC). An incorrect setting will damage the charger and / or the batteries! Some models do not have an AC selector switch.
2. The polarity of the outgoing cables, DC side (which is + plus, which - minus) and the meanings of the LED indicators are on the charger.
3. Connect the charger to the charging socket of the device / machine. Plug the AC power plug into the socket. If the charger has an ON / OFF switch, set switch to ON. Chargers without plug on the outgoing cable of the DC side: (+) Plus cable (DC) of the charger with the + positive pole of the battery; and (-) connect the negative (DC) cable (usually black) to the (-) negative terminal of the battery. While charging, the RED LED turns green and changes to GREEN when the battery is fully charged. It is recommended that the batteries / machine / device be connected to the charger until fully charged. This extends the life of the battery.
4. Some chargers are shipped with a green sheathed cable. This is used in electric vehicles and prevents driving during the charging process. Normally, this cable is not used and can remain free.
5. To turn it off, first unplug the power cord or, if the charger has an ON / OFF switch, set the ON / OFF switch to OFF. Then disconnect the batteries / machine / unit from the charger.



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IMPORTANT SAFETY INSTRUCTIONS!

1. Before using the charger, follow all instructions and safety instructions from: - charger - battery - Read the product in which the battery is used.
2. Caution: To minimize the risk of injury, charge only rechargeable lead-acid batteries. Other types of batteries could burst and cause personal injury and / or property damage.
3. Do not use in rain or snow.
4. Caution: To minimize the risk of fire, use the charger only in dry, well-ventilated areas. Do not use in rooms where flammable liquids or explosive gases are stored.
5. Never cover the charger with clothing or similar items while charging. Enable air circulation!
6. Use of accessories or spare parts not recommended or sold by the charger manufacturer may result in fire, electric shock or personal injury.
7. To avoid damage to cables or plugs, disconnect the charger from the mains or device, pull only on the plugs, not on the cables.
8. Extension cords should only be used in extreme emergency. Use of improper extension cords may result in fire and electric shock. If an extension cord must be used, make sure that:
 - a. The extension cord's contacts and plugs are the same number, size, and texture as the plugs on the charger.
 - b. The extension cable is correctly connected and undamaged. The cross-sections of the individual wires is at least 0.75mm².
9. Always route cables so that nobody steps on them, stumbles over them, or hampers other people.
10. Do not use the charger if the connector or cable is damaged. Replace them immediately!
11. Stop using the charger if it has been dropped, struck or otherwise damaged.
12. Do not disassemble the charger!
13. To avoid electric shock, always disconnect the power plug from the outlet before performing any maintenance or cleaning on the charger.

