



OPERATING INSTRUCTIONS

SONEIL Fully Automatic Battery Charger

6V, 12V, 24V, 36V, 48V and 72V Chargers



IMPORTANT SAFETY INSTRUCTIONS

- 1) Before using the battery charger, read all instructions and cautionary marking on
 - Battery charger
 - Battery
 - The product using the battery
- 2) **CAUTION:** To reduce risk of injury, charge only lead-acid type of rechargeable batteries. Other types of batteries may burst causing personal injury or damage.
- 3) Do not expose charger to rain or snow.
- 4) **CAUTION:** To prevent the risk of fire, use the charger only in dry and ventilated rooms without flammable fluids and explosive gases.
- 5) Do not cover the charger by clothing or similar things during charging process. Enable free air ventilation !
- 6) Use of an attachment not recommended or delivered by the battery charger manufacturer may result in a risk of fire, electric shock or injury to persons.
- 7) To reduce the risk of damage to the electric plugs and cords, pull by plug rather than cord when disconnecting the charger.
- 8) Make sure extension cord is not used unless absolutely necessary. Use of improper extension cord could result in risk of fire and electric shock. If extension cord must be used, make sure :
 - That the pins on the plug of extension cord are the same number, size and shape as those on the charger.
 - That extension cord is properly wired and in good electrical condition and the wire size is at least 0.75 mm. square.
- 9) Make sure cord is located so that it will not be stepped on, tripped over or otherwise subject to damage or stress.
- 10) Do not operate charger with damaged cord or plug - replace immediately!
- 11) Do not operate charger if it received a sharp blow, been dropped or otherwise damaged in any way.
- 12) Do not disassemble charger !
- 13) To reduce risk of electric shock, unplug charger from AC mains and battery outlet before attempting and maintenance or cleaning.



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Description:

The SONEIL charger is a battery charger designed to charge any type of lead acid batteries (gel, sealed or wet, AGM etc.) to full charge. The charger can be left connected to the batteries after full charge (green light) without harming the batteries. The charger uses minimum power in this standby-mode (after battery is fully charged), maintains the batteries at full charge and extends battery life. This is accomplished with an electronics circuitry that controls and regulates the amount of charging current that is sent from the charger to the batteries being charged.

OPERATING INSTRUCTIONS:

Before proceeding to charge batteries make sure you read all provided safety instructions.

1. For models with AC selector switch (slide switch that has 115V on one side and 230V on other side), make sure that the charger AC voltage selector switch is set to the correct AC power voltage (115VAC or 230VAC). Wrong setting will result in damage of the charger and/or the batteries!
2. The output wire polarity (which wire is +ve and which is -ve) and LED lights indications are on the label.
3. Connect the charger to the battery outlet on the electric vehicle/appliance or to the battery. Connect the charger to AC power line. If the charger has ON/OFF switch, turn ON the AC power switch. For chargers without connector on DC (output) wires, the +ve DC wire is connected to the +ve terminal of the battery and the -ve (normally black) DC wire to the -ve terminal of the battery. The CHARGING light is normally Red, Yellow or Orange which changes to GREEN when the battery is fully charged. It is a good idea to leave the charger connected until battery or electric vehicle / appliance is ready to use. It will give a long battery life.
4. Some charger models have green or yellow inhibit wire. In onboard applications this wire is used by electrical vehicle companies to prevent vehicle from moving while charging is taking place. Normally the Green or Yellow inhibit wire is not used and can be left un-connected.
5. When disconnecting, remove the AC power first by switching the AC power switch OFF (if the charger has an AC switch) and then disconnect the charger from the electric vehicle / appliance / battery.