

OPERATING INSTRUCTIONS
SONEIL Fully Automatic Switching Power Supply
Adapter/Charger
6V, 12V, 24V, 36V, 48V and 72V Power Supplies



www.soneil.com
Rev. B

Description:

The SONEIL power supply is a switching power supply designed to charge any type of lead acid batteries (gel, sealed or wet, AGM etc.) to full charge.

OPERATING INSTRUCTIONS:

TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK: READ THROUGH THESE INSTRUCTIONS PRIOR TO USING THE PRODUCT. CAREFULLY FOLLOW THESE INSTRUCTIONS WHEN USING THE PRODUCT. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

1. For models with AC selector switch (slide switch that has 115V on one side and 230V on other side), make sure that the product AC voltage selector switch is set to the correct AC power voltage (115VAC or 230VAC). Wrong setting will result in damage of the product 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 product to the battery outlet on the electric vehicle/appliance or to the battery. Connect the product to AC power line. If the product has ON/OFF switch, turn ON the AC power switch. For products 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 product connected until battery or electric vehicle / appliance is ready to use. It will give a long battery life.
4. Some product 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 product has an AC switch) and then disconnect the product from the electric vehicle / appliance / battery.

IMPORTANT SAFETY INSTRUCTIONS

- 1) Before using the product, read all instructions and cautionary marking on
 - Power Supply
 - 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 product to rain or snow.
- 4) **CAUTION:** To prevent the risk of fire, use the product only in dry and ventilated rooms without flammable fluids and explosive gases.
- 5) Do not cover the product 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 product.
- 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 :

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- That the pins on the plug of extension cord are the same number, size and shape as those on the product.
 - 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 product with damaged cord or plug - replace immediately!
 - 11) Do not operate product if it received a sharp blow, been dropped or otherwise damaged in any way.
 - 12) Do not disassemble product !
 - 13) To reduce risk of electric shock, unplug product from AC mains and battery outlet before attempting and maintenance or cleaning.
 - 14) This product can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Do not allow small children to handle this product while unattended as cables may represent a risk for strangulation and small parts may represent a risk for inhalation or swallowing.
 - 15) Do not allow animals to come into contact with this product. Some animals are known to cause damage to cables etc which may be a potential for risk of electric shock and excessive temperatures. Also, cables and small parts may represent a strangulation risk for the animal.
 - 16) When a product reaches its end of life, the waste electrical and electronic equipment should not be discarded together with un-separated municipal waste, but must be collected separately. As a consumer, you have an important role in recycling this product and contributing to the protection of the environment.
 - 17) When replacing the fuse, a fuse of the same type and rating must be used.
 - 18) No special maintenance procedure is required but if the product gets dusty or dirty it should be wiped clean using a dry cloth while the product is disconnected from the mains. No other maintenance should be necessary.
 - 19) The product must be kept away from sources of heat and may not be used in the vicinity of flammable anaesthetic gases or in other environments with flammable or explosive atmosphere.
 - 20) For use outside UK: Use a mains cord and AC plug compliant with the country specific requirements.
 - 21) There is no hazard to the product if it comes with the output wires stripped (without connector) as the product comes with short-circuit protection.
 - 22) If the product is specified to comply with the standard for Medical Electrical Equipment (standards based on IEC60601-1) it complies with some of the requirements for medical electrical equipment and may be used in medical applications and hospital environments.
 - 23) **WARNING:** No modification of this equipment is allowed. Any repair/service should be carried out by qualified personnel who may get assistance by contacting the manufacturer or the manufacturer's agent.
 - 24) Contact Information and for any enquiries: Refer to label on the product.