

DESCRIPTION:

NE244-F is a charger for gel, AGM and lead acid batteries. The batteries must have a nominal voltage of 12V and a capacity of between 50 and 85Ah.

OPERATION:

The battery charger uses a combination of charge at constant current and constant voltage. This makes possible a significant reduction of the charging time and prevents permanent damage to the battery.

Use the dip switches to choose the charging algorithm according to the type of battery. At switch on, the red led is on for a moment then the yellow led is on and finally the green led flashes to indicate which algorithm is selected via dip switches (see table).

VISUAL SIGNALS:

Regular charge

- Red:  First phase of charge
- Yellow:  Second phase of charge
- Green:  Battery charged - Maintenance phase



S1	S2	Algorithm	Number of flashes of the green LED at switch on
OFF	OFF	IUI0-Piombo	1
ON	ON	IUI0-Gel_TR ⁽¹⁾	2
OFF	ON	IUI0-Gel o AGM	3
ON	OFF	IUI0-Gel_SO ⁽¹⁾	4

⁽¹⁾Recommended for battery TR: Trojan, SO: Sonnenschein

Alarms

- Yellow ON + 1 flashing green LED: Battery disconnected or reverse polarity or short circuit
- Yellow ON + 2 flashing green LED: Alarm time-out: damaged battery
- Yellow ON + 3 flashing green LED: Faulty battery charger
- Red ON + 1 flashing green LED: Overtemperature

TECHNICAL CHARACTERISTICS:

- Input: 100-240Vac 2A - 1A 50/60Hz
- Output: 12Vdc - 8A
- Battery: 50 - 85Ah

PROTECTIONS:

- Input fuse : 4A 250V delayed (internal fuse)
- Reverse polarity
- Short circuit
- Overcurrent
- Overvoltage
- Overtemperature

CONNECTIONS:

- Input: Connector 2-way IEC EN60320 C18
- Output: Red cable AWG14: + Battery
- Black cable AWG14: - Battery
- Red cables AWG18: contact n.c. (when the main supply is connected the contact is open)

IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS.

- Failure to install and operate the charger in accordance with these instructions may result in damage to the charger or injury to the operator
- Working in the vicinity of a lead-acid battery is dangerous, batteries generate explosive gases during normal battery operation. For this reason it is of the utmost importance that each time before using the charger, you read and follow the instructions provided exactly.
- To reduce the risk of battery explosion, follow these instructions and those marked on the battery.
- To reduce the risk of injury, charge only lead-acid or gel batteries (be sure that the selected charging curve is suitable for the type of batteries that have to be charged). Do not attempt to charge any other type of chargeable or non-chargeable battery; these batteries may burst, causing personal injury and damage.
- Lead-acid batteries produce internal explosive gases during charging: prevent flames and sparks and provide adequate ventilation.
- Never charge a frozen battery.
- Study all battery manufacturer's specific precautions such as removing cell caps while charging and recommended rates of charge.
- Never place the charger directly above or below the battery being charged; gases or fluids from the battery will corrode and damage the charger. Locate the charger as far away from the battery as DC cable permit.
- Do not attempt to open the charger. There is risk of electric shock even if the charger is unplugged. No user serviceable components inside.
- Charger surface may be hot while plugged in and for a period of time thereafter.
- Do not expose the charger to the rain. For indoor use only.
- A minimum of 30mm clearance should be provided at each end of the charger. Install the battery charger in a dry and well aired place
- If the cables or output connectors are damaged contact the service center.
- Disconnect the power supply before connecting or disconnecting the battery connection.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- For the charging of automobile batteries:
 - The battery terminal non 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 supply mains. Then remove the chassis connection and then the battery connection.