

BOX C

- [1] Power Switch
- [2] DC Current Meter
- [3] Charging Complete Indicator
- [4] Charging Indicator
- [5] Error Indicator
- [6] Power Indicator
- 6. Install and Operation :
 - 1. Please make sure working area is well-ventilated and prevent the charger expose to the sun or get wet.
 - Please make sure the voltage of AC power socket is corresponded to the input voltage.
 - 3. Please make sure the battery voltage is corresponded to the output voltage and battery liquid is fully filled.
 - 4. Connect [8] with battery terminals, do not reverse polarity. (When battery and cables connect wrongly, the charger will not start charging)
 - 5. Connect [10] with AC power socket and turn on power switch.
 - 6. When charging is completed, [3] will light on and charger will stop charging and turn to Float Charging to keep battery in full charging for a long time.
 - 7. If you would like to disconnect your battery during charging or after charging is completed, please disconnect [10] or turn off [1] first.

7. Applicable

Emergency Generators, UPS, Self-powered Equipment.

[7] Carrying Handle
[8] DC Output Cable and Clamps
[9] Fan
[10] AC Power Cable
[11] AC Fuse
[12] AC Power 110V/220V Switch

SR SERIES

Microprocessor Controlled Automatic Battery Charger

User Guide





BOX C SIZE : 277mm x 215mm x 172mm

BOX B SIZE : 238mm x180mm x 142mm



⚠ WARNING : Electric Shock Hazard

Do not disassemble the CHARGER. The CHARGER does not contain any internal user-serviceable parts and attempting to service the unit yourself could result in electrical in electrical shock or burn.

SR SERIES USER MANUAL

1. Description

Constant Voltage Charging: Effectively control the charging voltage to prevent the damage of battery cell plate when over-charging.

Constant Current Charging: Control charging current at certain steady point to prevent battery absorbs too much current and cause the temperature increases rapidly to affect the battery service life and efficiency.

Equalizing Charging: Charge battery cell by 2.45²2.5V to ensure each battery cell can achieve saturated without over-charging and keeps charging saturation in 100%.

Float Charging: Charge battery cell by 2.25V to ensure battery last longer without loss of water.

Microcomputer Controlled: Automatically check if the charging cables connect correctly, the charger will begin charging after it is well-connected.

Generator Protection: When turn on your generator during charging, the charger will not burn or damage due to generator large starting current.

Automatic Charging: When power goes out and back on, the charger will start charging automatically. After full charging, the charger will turn to Float charging mode and keeps the battery in 100% saturation with no loss of water.

Low Voltage Charging: When battery in the low battery due to self-consumption or other reason, the charger will start charging automatically.

Cycle Charging: When charger turns to Float charging, it will re-charge in every 15 days.

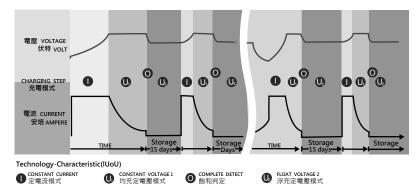
2. Specification

- 1. Input Power: Single-phase 220/110V±10% 50/60Hz (Or customized)
- 2. Output Voltage: 12V(max. DC15V)/ 24V(max. DC30V) (Or customized)
- 3. Output Current :

SR-1208=6A / SR-2408 = 6A / SR-1215 = 15A / SR-1220 = 20A

- SR-2415 = 15A / SR-2420 = 20A / SR-2425 = 25A / SR-2430 = 30A
- 4. Float Voltage : DC 13.0V / DC 26V(DC 2.2V/cell) (Or customized)
- 5. Float Current : DC 100 mA~DC 500 mA
- 6. Efficiency : Full load 82%
- 7. Charging Mode: Constant Current, Constant Voltage, Equalizing and Float Charging.
- 8. Operating Temperature : 50°C, Humidity 90%
- 9. Fuse: 30mm Fuse Tube **XDo not modify the fuse without qualified personnel** (For AC110V) SR-1208=3A / SR-2408 = 5A / SR-1215 = 5A / SR-1220 = 8A SR-2415 = 10A / SR-2420 = 15A / SR-2425 = 15A / SR-2430 = 15A
- 10. Protection :
 - A. Reverse Polarity : When clamps and battery connect wrongly, the charger will not start charging.
 - B. AC input Protection : When input power is over-current, the fuse will cut off.
 - C. Microcomputer Controlled to prevent over-temperature and over-charging.
 - D. DC Output reverse polarity protection.

- E. Spark Proof : When power is on and clamps connect together or connect with battery terminals, there will be no spark generated.
- 11. This charger is for lead-acid battery or industrial lead-acid battery ONLY.
- 3. Charging Curve



4. Caution

- A. Please store the charger in well-ventilated area and do not use the charger in the area over 50°C .
- B. Do not let the charger exposes to the sun or get wet. Do not put the charger onto the battery when charging.
- C. Keep charger away from strong acid and alkali when storing. As well as away from flammable liquid or stuff during charging.
- D. Please make sure the AC power is corresponded to the charger you are using.
- E. If you would like to discoonect the battery during charging or charging is completed, please disconnect AC power or turn off the power first.
- F. Please do not modify or disassemble the charger without qualified professional to prevent danger.
- G. When connecting the charger with battery, please make srue red clamp is connected with battery positive terminal (+) and black clamp with negative terminal ().
- $\ensuremath{\mathsf{H}}.$ Please use the charger corresponds to its specification.
- I. This charger is for charging battery only, do not use in other purposes.

5. Troubleshooting

- Ans 1: Please make sure if the AC power is well-connected.
- Ans 2 : Please make sure if the AC power indicator lights on.
- Ans 3 : Please check if the fuse is burned.
- Ans 4 : Please check if the power switch turns on.
- Ans 5 : Please check if charging battery is short-circuit or revere polarity.
- Ans 6: Please make sure if battery is over-discharged or in low power.

Ans 7 : Please make sure if the charging cables are well-connected or connected wrongly.

Ans 8: If the charging indicator is flashing, please check if the clamps are connected correctly.