FOXSUR®

3 - Stage Automatic Smart Battery Charger With LCD Display

FBC122408D

12V 8A / 24V 4A Multifunction Charger

(FOR CHARGE AGM, GEL, SLA AND WET... BATTERIES)

USER MANUAL

THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

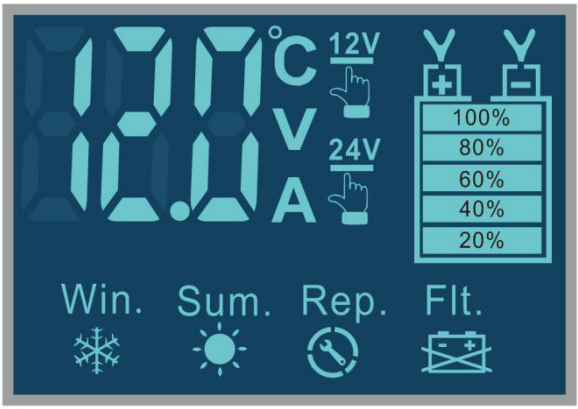
Please read this manual and follow the instructions carefully before using the charger.

WARNING:

- The **FBC122408D** charger is designed to charge **12V and 24V** lead-acid batteries from 6AH - 150AH(12V), 6AH - 100Ah(24V).
- Check battery manufacturer specifications before using this charger.
- Explosive gases may escape from the battery during charging. Provide ventilation to prevent flames and sparks.
- Do not expose charger to sunlight, high temperature environment.
- Battery acid is corrosive. Rinse immediately with water if acid comes into contact with skin or eyes.
- Do not charge a frozen or damaged battery.
- Do not charge non-rechargeable batteries.
- Do not place the charger on the battery while charging.
- Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short-circuit battery or other electrical part that may cause explosion.
- When working with a lead-acid battery, remove personal metal items such as rings, bracelets, necklaces, watch…
- Do not smoke or allow a spark or flame while charging.
- In order to reduce risk of electric shock, unplug charger from AC outlet before doing any maintenance or cleaning.
- Not for use by children or by anyone who is unable to follow instructions of this manual, unless they are supervised by an adult to ensure the proper use of charger.

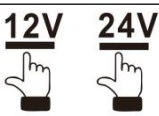
MAIN FEATURES:

- High efficiency (>85%).
- The 3-stage microprocessor controlled charging process provides the best possible application and enables efficient battery charging.
- Charging voltage adapts to temperature to prevent over or under battery charging.
- Capable of recharging severely discharged or heavily sulfated battery.
- Reverse polarity protection, short circuit protection, sparks free contact.
- LCD display: voltage, current, temperature etc.
- Ease of use. Clear charging status display.
- Full microprocessor controlled.
- Does not over charge your battery even if it is kept connected in any mode.



LCD DISPLAY:

	Charger Inside Temperature
	Charge Voltage
	Charge Current
	Repair Mode
	Complete Charge
	Winter Mode When the ambient temperature is below +10 ‘C, Raise the charge voltage
	Summer Mode When the ambient temperature is above +28 ‘C, Reduce the charge voltage
	Wrong polarity, please change the connection of the clamps
	Defect battery, please let the battery be tested by a mechanic and if necessary change the battery
	Bad connection please check the connection between the charger and the battery

	12V Battery or 24V Battery
	Battery Capacity

CHARGER MODES:

CAR / TRUCK	**For big batteries (Fast Charge)** 12V: Charge current max. 8A 24V: Charge current max. 4A
AGM	**For AGM, Calcium batteries**
MOTORCYCLE	**For small batteries (Slow Charge)** Charge current max. 1.5A
REPAIR	**Repair Mode (13hours)** An advanced battery recovery mode for repairing and storing, old, idle, damaged, stratified or sulfated. **Not all batteries can be recovered.**
MODE	**Charge mode select button**

CHARGING INSTRUCTIONS:

STEP 1 - Pre Charge:
Battery & Electrolyte Level Check

- Check the battery electrolyte level (Only for AGM or WET battery).
  If necessary, remove the vent caps and add distilled water so the levels are halfway between the upper and lower fill lines.
- Check the battery label if it is 12V battery or 24V batteries etc.

STEP 2 - Connect Charger to Battery

- If the battery is **out of the vehicle**:
- Connect the Red lead from the charger to the positive (+) battery terminal.
- Connect the Black lead from the charger to the negative (-) battery terminal.
- If battery is still **in the vehicle**, determine if the vehicle is positively or negatively earthed.
- If Negatively earthed (Most Common) – First connect the Red (+) battery charger lead to the Positive (+) battery post and then connect the Black (-) battery charger lead to the vehicle's chassis and away from the fuel line.

- If Positively earthed – First connect the Black (-) battery charger lead to the Negative (-) battery post and then connect the Red (+) battery charger lead to the Vehicle's chassis and far away from the fuel line.

STEP 3 – Connect Charger to Power (110Vac / 230Vac)

- Connect the battery charger to AC mains powered socket.
- The Charger will automatically start when AC power is connected and switched on.

STEP 4 – Disconnect Charger from Battery

- If the battery is **out of the vehicle:**
  - Switch OFF and remove the AC power socket from the outlet.
  - Remove the black lead and then the red lead.
  - Check electrolyte levels if possible.

(As they may need topping up with distilled water after charging)

- If the battery is **in the vehicle:**
  - Switch OFF and remove the AC power socket from the outlet.
  - Remove the lead from the vehicle chassis.
  - Remove the lead from the battery.
  - Check electrolyte levels if possible.

(As they may need topping up with distilled water after charging)

ENVIRONMENTAL CHARACTERISTICS:

- Operating temperature range: -20 to +45'C
- Storage temperature range: -30 to +70'C
- Operating humidity range: 90% RH Max

TECHNICAL SPECIFICATIONS:

Model	FBC122408D
Type	Smart & Automatic
AC Input	100 - 240V 50/60Hz
Output Voltage	12V / 24V Auto
Output Current	12V 8A & 24V 4A
Output Volt No Load	13.8V
Minimum Start Volt	>2.0V
Input Power With Load	Max. 130W
Input Power No Load	3.2W
Cooling	Fan
Size (L*W*H)	170*98*58mm
Net Weight	560g
Approval	CE