

12V 7A

7 - Stage Automatic Smart Battery Charger For Motorcycle, Car, ATV,  
etc...

(AGM, GEL, SLA, WET, DEEP CYCLE... BATTERIES)

## **FBC1207D**



## **USER MANUAL**

THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING  
INSTRUCTIONS

English

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

## **WARNING:**










- The FBC1207D charger is designed for 12V batteries with capacity from 6AH - 120AH.
- Check battery manufacturer specifications before using.
- Explosive gases may emitting from battery during charging. Provide ventilation to prevent flames and sparks.
- Do not expose charger to the sun, or under 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%).
- GEL, Standard, AGM, MOTO battery type can selectable
- The 7-stage microprocessor-controlled charging process provides the best possible application and enables efficient battery charging.
- Charging voltage adapts to temperature, that can prevent over- or under- charging of battery.
- Capable of recharging severely discharged or heavily sulfated battery.
- Reverse polarity protection, short circuit protection, over-charge protections, parks free contact.
- LCD display: voltage, current, temperature etc.
- Ease of use. Clear charging status display.
- Full microprocessor controlled.
- Do not over-charge your battery even it is kept connecting in any mode.

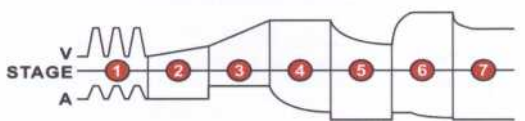


## LCD DISPLAY:

	Charger Inside Temperature
	Charge Voltage
	Charge Current
	Repair Mode
	Standby
	Battery Full
	Desulphation Mode Only for Gel, Standard, AGM mode
	Test Mode An automatic battery test is conducted immediately after the absorption stage, it monitors the voltage for 10 minutes to determine if the battery is full or not
	Low Voltage Battery voltage is too low or battery can't store the energy

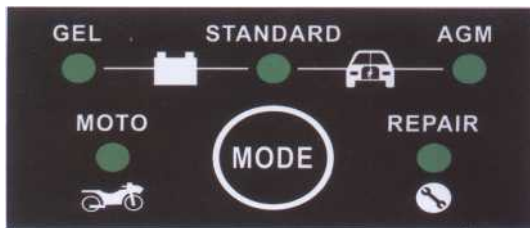
	End of Repair Function
	Winter Mode When the temperature is below +10° C, Raise the charge voltage Only for Standard mode
	Summer Mode When the temperature is above +28° C, Reduce the charge voltage Only for Standard mode
	Wrong polarity, please change the connection of the clamps
	Defect battery, please let the battery be checked by a mechanic and if necessary, change the battery
	Bad connection, please check the connection between the charger and the battery
	Battery Capacity

#### 7-STAGE CHARGING PROCESS



- 1- stage: Battery desulphation
- 2- stage: Soft start charging
- 3- stage: Bulk charging
- 4- stage: Absorption charging
- 5- stage: Battery test
- 6- stage: Recondition charging
- 7- stage: Float & maintenance charging





## CHARGER MODES:

<b>GEL</b>	GEL Batteries Mode For charging GEL Batteries
<b>STANDARD</b>	Standard Batteries Mode For SLA, WET, DEEP CYCLE, EFB, Calcium Batteries
<b>AGM</b>	Standard Batteries Mode For charging AGM batteries
<b>MOTO</b>	Motorcycle Batteries Mode For charging motorcycle batteries
<b>REPAIR</b>	Repair Mode (16 hours) An advanced battery recovery mode for repairing and storing, old, idle, damaged, stratified or sulfated. <i>Not all batteries can be recovered, only can use on Motorcycle and Car batteries</i>
<b>MODE</b>	Charge Mode Select Button After charging for 30 seconds, the mode button will be locked. If you want to use it again, need to remove the alligator clip from the battery

## **CONNECT TO THE BATTERY:**

Do not connect the AC power plug until all other connections are made. Identify the correct polarity of the battery terminals on the battery. Do not make any connections to the carburetor, fuel lines, or thin, sheet metal parts. The below instructions are for a negative ground system (most common). If your vehicle is a positive ground system (very uncommon), follow the below instructions in reverse order.

1. Connect the positive (red) clamp to the positive (POS, P, +) battery terminal.
2. Connect the negative (black) clamp to the negative (NEG, N, -) battery terminal.
3. Connect the battery charger into a suitable electrical outlet. Do not face the battery when making this connection.
4. When disconnecting, disconnect in the reverse sequence, removing the negative first (or positive first for positive ground systems).

## **BEGIN CHARGING:**

1. Verify the voltage and chemistry of the battery.
2. Confirm that you have connected the battery clamps or eyelet terminal connectors properly and the AC power plug is plugged into an electrical outlet.
3. Press the mode button to toggle to the appropriate charge mode.
4. The mode LED will illuminate the selected charge mode and the Charge Icon will illuminate (depending on the health of the battery) indicating the charging process has started.
5. The charger can now be left connected to the battery at all times to provide maintenance charging.

Auto-Memory: The charger has built in auto-memory and will return to the last charge mode when connected.



TECHNICAL SPECIFICATIONS:

Model	FBC1207D
Type	Smart & Automatic
AC Input	100 - 240V 50/60HZ
Output Voltage	12V
Output Current	7A max.
Minimum Start Volt	Battery Voltage >7.0V
Input Power With Load	Max. 105W
Input Power under No Load	2.6W
Cooling	Fan
Size (L*W*H)	150*86*63mm
Net Weight	415g
Approval	CE / FCC

## Battery Charger

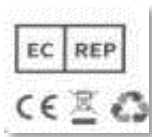
**Model** FBC1207D

**Input** 100-240V-50/60HZ, max. 105W

**Output** DC 12V max.7A

**Manufacturer** Foxsur Electronic Equipment Co., Ltd.

**Address** Hengjiangxia Industrial Zone, ChangPin Tower, DongGuan City, GuangDong Province, China



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