



Automatic Smart Battery Charger With Big LED Display 12V 2A

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



USER MANUAL

**THIS MANUAL CONTAINS IMPORTANT SAFETY AND
OPERATING INSTRUCTIONS**

Smart Battery Charger with LED display

This battery charger utilizes the latest technology in Lead-Acid, AGM, GEL, Flooded(Wet), Calcium type, deep cycle, VRLA maintenance free batteries charging, can be used with 4Ah-30Ah batteries.

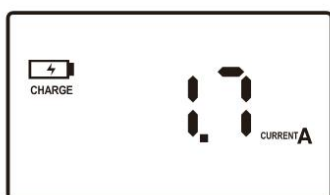
How to Use:

1. Check your battery parameters is compatible to the charger (at the back of the charger)
2. Connect the red clamp to the positive pole(+), black clamp to the negative pole(-)
3. Connect the charger with AC power source, the charger will start to operate
4. The LED display will show battery voltage, charge current
5. Wrong battery connection: "Ero" will displayed on screen
6. Once the battery is fully charged, the battery bar on screen will in "FUL" Status, Keep the charged status in 1-2 hours is highly recommended.
7. Charging completed, remove the charger or keep connected.

During the charging process, the LED will display as below:



Charge Voltage



Charge Current



Charge Percentage



Battery Full



Error

Frequently Asked Questions:

1. Why does the charger heat up when charging?

A: The charger will generate a certain amount of heat during the charging process, which is normal.

2. Battery voltage is normal, however the charger does not work:

Reason: There is no AC power input.

Solutions: Check the AC-power source are working or not, change the socket and re-try it.

3. Unable to reach "FUL" status after charging in long time.

The battery has been vulcanized, or feeder, or water depletion in the battery. The battery voltage will keep low status, causing the battery unable to get fully charged.

Solutions: Stop to charge when the battery is heating, check the battery is in shortage of liquid or Not. please charge cycle 1-2 times (Discharge-Charge, Discharge-Charge).

Specifications

Model	FBC1202E
Input Voltage	100-240VAC 50/60Hz 30W
Input Current	0.15A(RMS)@230VAC
Charge Voltage	12V Battery: 14.8V (Measurements allowed tolerance +/-0.3V)
Ripple Current	Current ripple: <=0.12A rms
Bulk Charge Current	Max. 2.0A
Operate Temperature	-20°C to +45°C
Cooling	Natural Cooling
Charging process	CC, CV, Float Charge
Battery Type	12V AGM,GEL,Flooded(Wet),Calcium, deep cycle, VRLA, maintenance free, lead acid batteries
Battery Capacity	4Ah - 30Ah
Size	135*70*50mm
Net. Weight	230g

The table shows the up to about 100% state of charge

Battery Capacity (Ah)	Time (hours)
4	2
10	5

15	8
20	10
30	15