

Specifications

Input Voltage	100-240VAC- 50/60Hz 75W
Input Current	0.5A(RMS)@230VAC
Charge voltage	Summer Mode:14.4V, Normal Mode: 14.7V,Winter Mode:15.5V (Measurements allowed tolerance +/-0.4V)
Ripple current	Current ripple:<=0.12A rms
Bulk charge current	5.0A
Operate Temperature	-20°C to +45°C
Cooling	Fan
Charging process	3-stage: CC, CV, Float Charge
Battery Type	all type of 12V AGM,GEL,Flooded(Wet),Calium type deep cycle, VRLA maintenance free lead acid batteires
Battery Capacity	4Ah - 100Ah
Size	150*85*60mm
Net. Weight	380g

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

Battery type (Ah)	FBC1205D (hours)
12	2.5
20	5
40	9
60	13
100	22



12V PULSE BATTERY CHARGER

- Microprocessor Controlled
- Professional Automatic Switch mode
- For Charging AGM, GEL, SLA and Wet Batteries
- LCD Display & Pulse Repair Charge
- Overheat, Overcharge, Short Circuit & Reverse Polarity Protection
- Maximizes Battery Life



CE

USER MANUAL

Pulse Repair Battery Charger with LCD display

User Manual

The FBC1205D utilizes the latest technology in Lead-Acid, AGM, GEL, Flooded(Wet), Calcium type deep cycle, VRLA maintenance free lead acid batteries charging, can be used with 4Ah-100Ah 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. The LCD display will show battery voltage, charge current and inside temperature (Temperature is for reference only, allowed tolerance).
4. Wrong battery connection: "E-I-I" will displayed on screen, the indicating lamp will flash.
5. Connect the charger with AC power source, the charger will start to operate (the Charge-lamp will start to flash in red)
6. Once the battery is fully charged, the battery bar on screen will in "FUL" Status, meanwhile, the charge indicating lamp will keeps on. Keep the charged status in 1-2 hours is highly recommended.
7. Charging completed, remove the charger.

Remark: for 4Ah-15Ah battery, we suggest use "Repair" mode, because the battery size is too small, use pulse charge is very good for small size battery.

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



Charge Voltage

Charge Current

Inside Temperature

Winter & Summer Mode:

1. Charger detects the inside temperature, will switch to the appropriate voltage automatically.
2. The temperature will be tested in 5 - 10's, it have tolerance range and will not affect the charging.

Winter Mode	<12°C
Normal Mode	12°C - 30°C
Summer Mode	>30°C



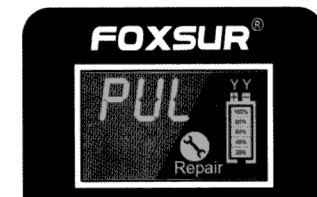
Winter Mode

Summer Mode

Battery Full

How to Pulse Repair Battery:

1. Connect the battery with the Charger and switch on AC mains, then press "Repair" Button, the "PUL" will display on the screen, the Charge-lamp will start to flicker in red.
2. The suggested Repair time for motorcycle battery is 5 hours, For car battery is 8 hours.
3. Press "Repair" button again; the battery will automatically switch to normal charging mode.
4. Check the battery temperature while Repair, stop to Repair the battery when the battery temperature too hot. The longest repair time is 24 hours and will automatically switch into normal charging mode when reach the maximum repair time.
5. The battery will be charging even the battery is in Repair-mode, the battery will be fully charged if the repair takes long hours. One more hour charging is recommended when the battery screen shows "FUL". Double check whether or not the battery is fully charged when charging completed.



Frequently Asked Questions:

1. The LCD display "FUL", but the battery is yet fully charged.
Reason: As the Battery inside resistance is too large or the capacity of battery is reduced for Feeder Battery, vulcanized Battery, Low voltage/Long-idle time Battery, the voltage of battery will immediately soar, causing the "FUL" status occurs when the battery is yet fully charged.
Solutions: Press "repair" button, activate the battery.
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, changing 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).