

**6V&12V 1.5AMP**

# **Automatic Battery Charger/Maintainer**

Model:EPA1020-0612

# **USER MANUAL**

**CE RoHS**

## **IMPORTANT SAFETY INSTRUCTIONS**

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

You are welcome to contact us with your question via [support@astroai.com](mailto:support@astroai.com).

**Brief:** This device is 4 stages smart battery charger by Microprocessor controlled with switch mode for 6V and 12V is selectable output .it is ideal for charging your CAR,MOTORCYCLE AND RIDE-ON TOY batteries,suit for type of batteries included AGM GEL VRLA SLA WET and deep-cycle.

## 4-stage charging process

Stage 1: initialization,when the charger power on then it start self-check and detect the battery correct connect. low output voltage without battery **Fault LED is light, please CHECK THE POLARITY IS CORRECT.**

Stage 2: Bulk charge, using the charger highest rated current for the type of battery in use until it reaches 80% capacity **(LEDs 50% Blinking, 100% OFF)**

Stage 3: Absorption, the output voltage is limited to 7.3V(6V battery) or 14.5V(12V battery) while current declines as the battery charges to its full capacity without overheating **(LEDs 50% ON , 100% Blinking)**

Stage 4: Float, At this stage, the battery is fully charged and the charger maintains the battery through pulse charging **(LEDs 50% ON , 100% ON)**

### IMPORTANT WARNING:

Before charging, make sure the correct battery voltage with the device voltage as same.

## LED STATUS:

LED	Indication	Status
6V	Lighting	For 6V battery
12V	Lighting	For 12V battery
Mode	Press	6V/12V selectable
	Lighting	Fault
	Flashing	50% charging
	Lighting	50% battery
	Flashing	100% charging
	Lighting	Full/maintenance

## SPECIFICATION:

Input: 100-240VAC@50/60Hz 0.5rms  
Output: DC 6.9V@ 1.5Amp  
DC 13.8V@1.5Amp  
Limited voltage: 7.2~7.3V or 14.5~14.7V  
Float current: 300mA~400mA  
Charging mode: Fully automatic  
Suitable battery: 6V or 12V AGM GEL VRLA SLA WET  
Charging Battery : 6-12Ah  
Maintaining Battery: 4-36Ah  
Cover size: 85X53X35mm  
Safety : EN60950-1 EN60335  
EMC: EN55022  
Approved: CE RoHS

## HOW TO USE:

1. Plug in the charger to AC socket, all the lamp will be blinking sequentially then solid "12V" LED ON.
2. Press "MODE" button to set device voltage ,make sure the correct battery voltage with the device voltage as same. " 12V" is defaults.  
If need 6V, please press MODE to choose voltage before connecting to the battery. Choose voltage is unavailable during charging process.
3. Connect positive charger clip (red) to positive battery terminal, the black clip to negative. (You can use other dc plugs to connect battery), the ""lamps will light on . If the battery polarity reversed or output shorted, the ""amps will light on.please check the setup
4. the "" lamps will light on, the battery is fully charged and maintains the battery. you can power off the charger and disconnect the battery or you can charge a new battery if you need.

## WARNING!

- 1,This charger is designed for charging AGM,GEL,Floded(Wet),Calium type deep cycle,VRLA maintenance free lead acid batteries from 4 to 36Ah,Do not use for any other purpose
- 2,Since batteries may emit explosive gases,always provide good ventilation and avoid any source of flames or sparks when charging.
- 3,To reduce risk of damage to electric plug and cord,pull by the plug rather than by the cord when disconnecting charger.
- 4,Use of an improper extension cord could result in a risk of fire and electric shock
- 5,Do not operate charger if you notice any signs of damage to charger or cords
- 6.Do not disassemble the charger;take it to a qualified serviceman when service of repair is required.in correct reassembly may result in a risk of electrical shock or fire.
- 7.To reduce risk of electric shock,unplug charger from AC outlet before attempting any maintenance or cleaning

If this product is defective, please contact AstroAI Customer Support at [support@astroai.com](mailto:support@astroai.com).

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