

CAUTION

1. SAVE THIS INSTRUCTIONS- This manual contains important safety and operating instructions for the GA6012 battery charger. Please read the caution of batteries or devices you want to charge firstly!
2. When charging, batteries can emit explosive gases, therefore it is essential to prevent flames and sparks. The charger is designed for charging lead-acid batteries from 4 to 100Ah. Do not use for any other purpose.
3. Good ventilation when charging.
4. Use of an attachment not recommended or sold by us may result in a risk of fire, electric shock or serious injury to persons.
5. To reduce risk of damage to electric plug and cord, pull by the plug rather than by the cord when disconnecting charger.
6. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of fire and electric shock. If extension cord must be used, make sure that:
 - a) Pins on plug of extension cord are the same number, size and shape as those of plug on charger;
 - b) Extension cord is properly wired and in good electrical condition;
 - c) Wire size is large enough for ac ampere rating as specified in "technical data".
7. Do not operate charger with a damaged cord or plug, return the charger to the place where purchased.
8. Never operate the charger if it has received a sharp blow, been dropped or otherwise damaged in anyway; take it to a qualified serviceman.
9. Do not disassemble the charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electrical shock or fire.
10. To reduce risk of electric shock, unplug charger from AC outlet before attempting any maintenance or cleaning. Turning off controls will reduce the risk.

GA6012 12V Lead-Acid Battery Charger

User's Manual



August 2019 First Version

Brief Introduction

GA6012 is a new member of a family of professional charger in our company. It represents today's new technology for lead-acid type battery charging. Programmed four auto stages (Pre-charge, repair or normal charge-trickle-pulse maintenance) charging process. It is designed for all kinds of 12V 4~100Ah lead-acid battery, such as SLA, AGM and Gel battery.

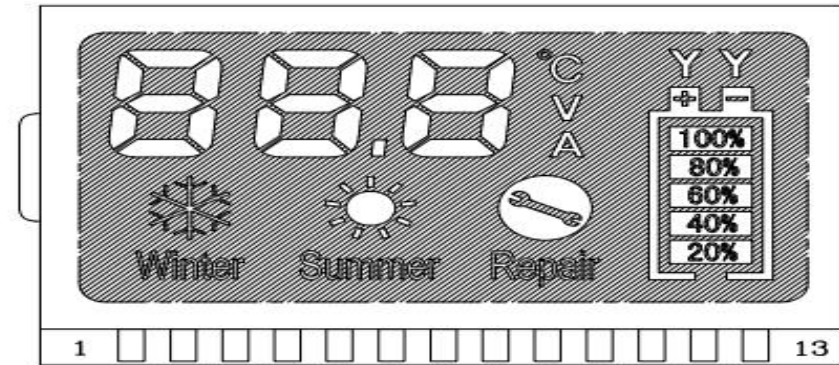
Charging instructions :

Connect battery to detect voltage firstly. When battery voltage is less than 11V, it enters pre-charge mode. Half an hour later, if the voltage is still below 11V, it enters the repair mode(Repair). (Repair time is 24H, if 24H later the battery voltage is still less than 11V, It is recommended to replace the battery, if it is higher than 11V, enter the main charging mode); When charging current is less than 0.5 A, it enters trickle, (at this time percentage bar display 100 %, and charge full(FUL) display). When trickle current is less than 200mA, charger will cutoff completely. After charging cut off, the battery voltage is detected every 2H. If the voltage is less than 13V, charger will pulse the battery to recharge.

Specification :

Input Voltage	100-240VAC, 50-60Hz
Input Current	1.1A max
Charge Voltage	Rating 12V, Bulk 14.4V/14.7V (14.7V for low temperature)
Charge Current	4.2A max
Battery type	All types of 12V lead-acid batteries. (SLA, Gel, AGM....)
Size	120X67X41 (L*W*H)
Weight	285g
Enclosure	Natural convection. Do not cover the charger.

Charging display panel



	Voltage, current, temperature
	Ambient temperature
	Pulse desulfation
	Percentage bar
	Battery Access

Simple exception handling:

	Not bright	Power off
YY flicker		Battery not connected
ERR flicker		Reverse, circuit short, or bad battery