



QUICK START GUIDE

Golf Cart Smart Battery Charger



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GS950C

Disclaimer

This is the original instruction, please read all manual instructions carefully before operating. WAVLINK reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

	Warning-To reduce the risk of injury, user must read instructions manual carefully.
	This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)This device may not cause harmful interference, and (2)this device must accept any interference received, including interference that may cause undesired operation.
	This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices

Warnings



This Operating Manual covers information on safety and cautions. Please read it carefully before charging.

- READ AND UNDERSTAND ALL SAFETY INFORMATION BEFORE USING THIS PRODUCT. Failure to follow these safety instructions may result in ELECTRICAL SHOCK, EXPLOSION, FIRE, which may result in a SERIOUS INJURY, DEATH, or PROPERTY DAMAGE.
- Electrical Shock, Product is an electrical device that can shock and cause serious injury. Do not cut power cords. Do not submerge in water or get wet.

- Explosion. Unmonitored, incompatible, or damaged batteries can explode if used with product. Do not leave product unattended while in use. Do not attempt to jump start a damaged or frozen battery. Use product only with batteries of recommended voltage. Operate product in well ventilated areas.
- Fire. Product is an electrical device that emits heat and is capable of causing burns. Do not cover product. Do not smoke or use any source of electrical spark or fire when operating product. Keep product away from combustible materials.
- Eye Injury. Wear eye protection when operating product. Batteries can explode and cause flying debris. Battery acid can cause eye and skin irritation. In the case of contamination of eyes or skin, flush affected area with running clean water and contact poison control immediately.
- Explosive Gases. Working in the vicinity of a lead-acid is dangerous. Batteries generate explosive gases during normal battery operation. To reduce risk of battery explosion, follow all safety information instructions and those published by the battery manufacturer and manufacturer of any equipment intended to be used in the vicinity of battery. Review cautionary markings on these products and on engine.

Overview

With CPU control and PWM technology, GS950C series charger has the advantages like high efficiency, good stability, low-carbon and energy-saving. Three-section charging mode — Controlling the charging current and voltage automatically and precisely, both ensure that battery is charged fully, and not over-charged. Your battery life will be protected.

This product can charge three kinds of batteries: lead-acid battery/lithium iron phosphate battery/ternary lithium battery, please determine which kind of battery you want to charge before charging, and check the voltage of the battery before charging.

Unpacking Inspection

Open the package case, check the items shown on Table 1 carefully to check any missing or damaged part.

Item	Description	Qty
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Operating Instruction

- Before charging, determine the type of battery of the equipment to be charged, and press the battery type switch to rotate the battery type, and check whether the battery voltage of the charging device is consistent with the charger. (See Fig1)
- Battery type LED: Battery type indicator LED.
- Charging status LED: Charging status indicator LED.
- Battery type selector switch: Rechargeable battery type selection switch.



Fig1

The type and operating status corresponding to the color of the LED Battery type LED:

Green-----Lead-acid batteries

Orange ----- NMC battery

Red ----- LiFePo4 battery

Charging status LED:

Red and green shiny-----Poor battery contact

The red light is always on-----Charging

The green light is on-----Float charged

The green light is always on-----Charging ends

The red light flashes once every 1 second-----Battery failure

The red light flashes twice a second-----Faulty charger

The red light flashes three times a second-----Battery overvoltage

The red light flashes four times a second-----Overcurrent

The red light flashes five times a second-----Overtemperature

Battery type selector switch:

If you want to charge a ternary lithium battery or lithium iron phosphate battery, please press this switch, and the corresponding LED light color selects the type of rechargeable battery. Press this switch to cycle through the battery type, and the color of the corresponding LED light will also change.

Note: Before starting charging, you must choose the corresponding battery type correctly, otherwise it will flush up the bad battery, and in serious cases, a fire will occur.

Before charging, please connect the DC terminal to battery firstly, and then connect the AC terminal (See Fig2)

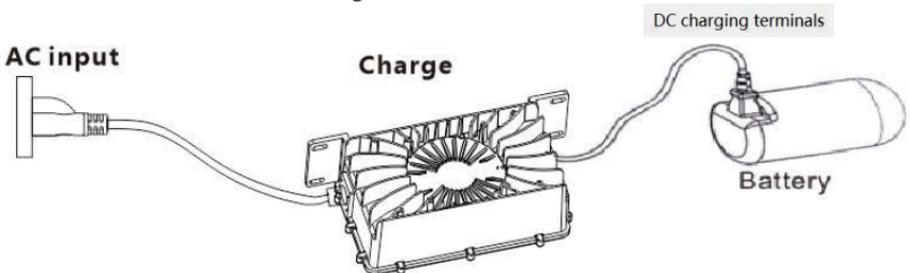


Fig2

After charging complete, unplug the AC terminal firstly, and then unplug the DC terminal(See Fig2).

No charging or after charging complete, be sure to unplug the DC terminal and the AC terminal.

Note:

BEFORE CHARGING, IT IS IMPORTANT TO MAKE SURE THAT THE TYPE OF RECHARGEABLE BATTERY IS THE SAME AS THE TYPE OF RECHARGEABLE BATTERY SET BY THE CHARGER.

BEFORE STARTING CHARGING, YOU MUST FIRST PLUG IN THE DC CHARGING PLUG AND THEN THE AC PLUG.

AFTER CHARGING, THE AC PLUG MUST BE SELECTED AND THEN THE DC CHARGING PLUG MUST BE UNPLUGGED.

Attention

- Don't cover the charger or intake during charging
- The charger should be placed where children could not touch.
- Please charging in indoor area where good ventilation and heat dissipation is.
- Prohibited charging where is humid, high temperature or a flammable, explosive gas surrounding.
- There is a danger of high voltage inside the charger case, please do not disassemble it unauthorised.
- The manufacturer is not responsible for any damage caused by operation not in accordance with the operating instructions

Maintenance

WARNING: Before carrying out the following operations, ensure that the charger is disconnected from the battery and mains supply.

Routine Maintenance:

- Regularly remove dust from the ventilation slots and fan to ensure good heat dissipation from the charger.
- Periodically wipe the casing with a cloth dampened with a small amount of alcohol.
- Do not use or store the charger in a place with high humidity or temperature.

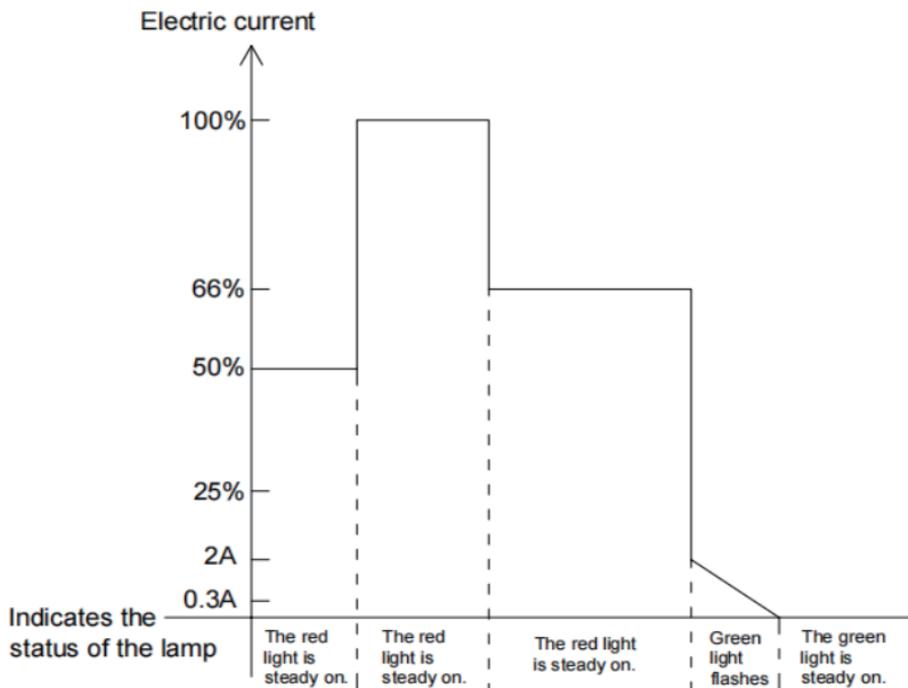
Common Problem & Solution

Problem	Cause	Solution
After connecting the charger to the battery, the charger does not work or the charging status LED flashes red continuously.	The positive and negative polarity of the battery is reversed, or the battery is defective	Connect charger and battery correctly
The charging status LED flashes 2 times in one second	Short circuit	After the battery replacement, the issue persists. Please take it back to the dealership for further servicing.
The charging status LED flashes 3 times in one second	Output over voltage	After the battery replacement, the issue persists. Please take it back to the dealership for further servicing.
The charging status LED flashes 4 times in one second	Over current	If the issue persists, please take it back to the dealership for further servicing.

The charging status LED flashes 5 times in one second	Charger overheats and goes into thermal protection mode and standby.	Cooling charger. The charger can automatically resume operation when the temperature cools down.
Once the charger and battery are connected, the charger's charging status LED will flash between red and green.	Charger and battery is disconnected.	Reconnect the charger and battery.
After connecting the charger to the mains, charging does not work and all the LEDs are off.	Plug loose, charger does not connect to mains.	Reconnect the AC cable and check that it is OK.
	Charger is damaged	Return the charger to your local dealer for repair. There is high voltage inside the charger, please don't open the charger yourself.

GS950C PARAMETERS

Battery type	Charging mode lights up	Battery string		Charger finish			
		48V	36V	48V		36V	
Lead-acid battery	Green	12V 4 strings	12V 3 strings	The first stage	about 58.4V	The first stage	about 43.4V
				The second stage	about 54.65V	The second stage	about 41.4V
Lithium battery	Orange	4.2V 14 strings	4.2V 10 strings	about 58.4V		about 43.4V	
LiFePo4 battery	Red	3.65V 16 strings	3.65V 12 strings	about 58.4V		about 43.4V	



CHARGE CURRENT/CHARGE LED INDICATION

Need help?

We're here for you!



Online support: wavlink.com

Available Mon-Fri 8:30 am-5:30pm (UTC+8)



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