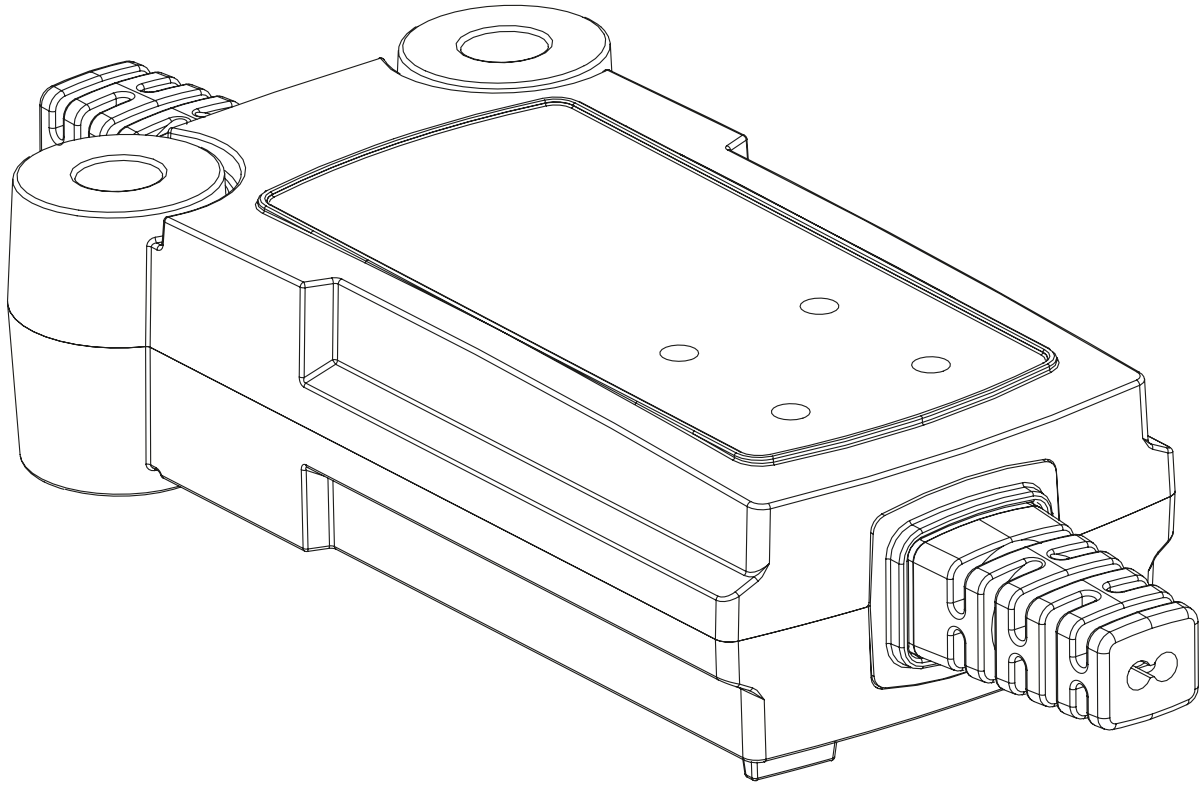


FR 2-5 / 30-32

EN 6-9 / 30-32

DE 10-13 / 30-32

ES 14-17 / 30-32

RU 18-21 / 30-32

NL 22-25 / 30-32

IT 26-29 / 30-32

GYSFLASH 1.12

SAFETY INSTRUCTIONS



This manual contains safety and operating instructions.
Read it carefully before using the device for the first time and keep it in a safe place for future reference.
This machine should only be used for charging operations comprised within the limits indicated on the machine and in the instruction manual. The operator must respect the safety precautions. In case of inedaquate or unsafe use, the manufacturer cannot be held liable.

This unit can be used by children aged of at least 8 years and by people with reduced physical, sensory or mental capabilities or lack of experience or knowledge, if they are properly monitored or if instructions for using the equipment safely was given to them and if they have been made aware of the risks. Children must no play with the product. Cleaning and maintenance should not be performed by unsupervised children.

Do not use to charge small batteries or non rechargeable batteries.

Never charge a frozen or damaged battery.

Do not operate the device with a damaged power supply cord or a damaged mains plug.

Do not use the device if the charging cable appears to be damaged or assembled incorrectly in order to avoid any risk of short circuiting the battery.

The operating mode of the automatic charger and the restrictions applicable to its use are explained below in this manual.



Fire and explosion risks!
A charging battery can emit explosive gases.

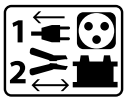


- During the charge, the battery must be placed in a well ventilated area.



- Avoid flames and sparks. Do not smoke.

Connection / disconnection:



- Ensure that the charger's power supply is disconnected before plugging or unplugging the connections on the battery.

- Always ensure the Red clamp is connected to the «+» battery terminal first. If it is necessary to connect the black clamp to the vehicle chassis, make sure it is a safe distance from the battery and the fuel/exhaust pipe. The charger must be connected to the mains.
- After charging, disconnect the charger from the mains, then disconnect the clamp from the car body and then disconnect the clamp from the battery, in the indicated order.

Connection:
- Class II device
- The connection to the power supply must be carried out in compliance with national standards.

Maintenance:
- If the power cable is damaged, it must be replaced by the manufacturer, its after sales service or an equally qualified person to prevent danger.

Regulations:
- Machine compliant with European directives.
- The certificate of compliance is available on our website.
- EAC Conformity marking (Eurasian Economic Community)
- Equipment in compliance with British requirements. The British Declaration of Conformity is available on our website (see home page).
- Equipment in conformity with Moroccan standards.
- The declaration C۔ (CMIM) of conformity is available on our website (see cover page).

Waste management:
- This product should be disposed of at an appropriate recycling facility. Do not throw away in a domestic bin.

GENERAL DESCRIPTION

The GYSFLASH 1.12 is ideal to charge most small lead-acid batteries, often used for cars and many other small vehicles such as motorbikes, scooters, watercrafts... These batteries can be of many types eg: GEL (gel electrolyte), AGM (absorbed glass mat), WET, MF (Maintenance Free), CA (Calcium)...
This charger has been designed to charge 12V batteries (6*2V elements) from 1 Ah to 32 Ah, or for floating charge up to 100 Ah.

START UP

1. Connect the charger to the battery using the proper accessory (clamps, lugs, etc...).
2. Plug the charger to the mains (single phase 220-240Vac 50-60Hz).
3. During the charge, the device indicates the charge's progress. When the indicator OK blinks, the battery is ready to start the vehicle. Once the indicator OK stays on, the battery is completely charged.
4. After charging, disconnect the charger from the mains, then disconnect the charger's connections from the battery.

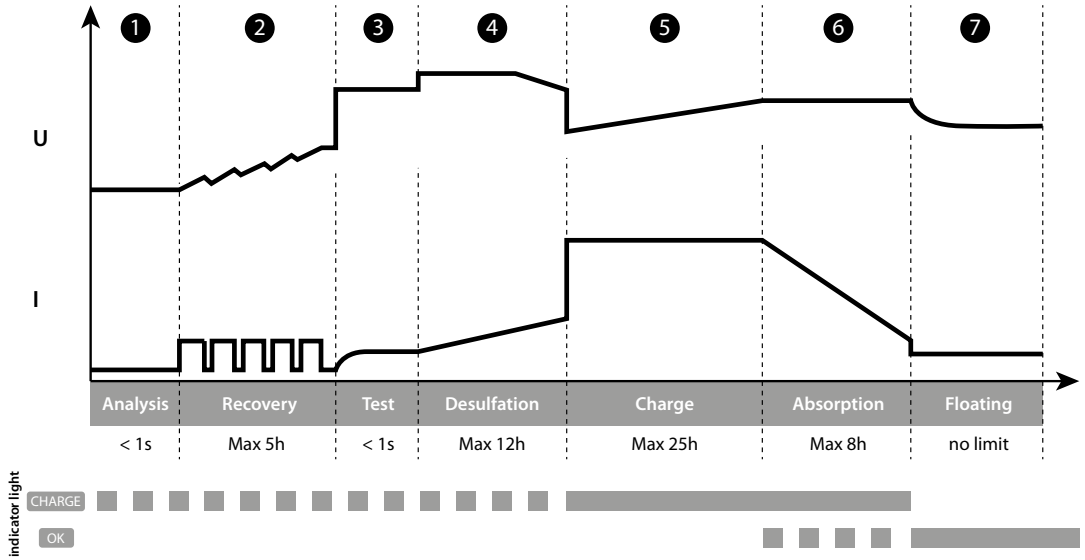
CHARGE MODE

• Charge mode description :

CHARGE mode (14.5V/1A) :
Mode designed for lead-acid batteries, 12V from 1 Ah to 32Ah and up to 100 Ah for a floating charge. 7 step automatic maintenance cycle.

• Charging curve :

The GYSFLASH 1.12 use an 7 step charging curve which guarantees optimal performance for your battery.



Step ❶ : Analysis
Analyses the battery state (charge level, polarity inversion, wrong battery…)

Step ❷ : Recovery (0.5A)
Damaged elements recovery due to an extended deep discharge algorithm

Step ❸ : Test
Sulfated battery test

Étape ❹ : Desulfation (15.8V)
Battery desulfation algorithm.

Step ❺ : Charge (1A)
Fast charge with maximum current that can reach 80% charge level.

Step ❻ : Absorption (14.5V)
Constant voltage charge to reach a 100% charge level.

Step ❼ : Floating charge (13.6V)
Maintains battery charge level at its maximum.

• Estimated charge time				
Battery capacity	2Ah	10Ah	20Ah	32Ah
Charging time 20% >>> 80%	2h	6h	12h	19h

If the motorbike is fitted with a 12V plug, the GYSFLASH 1.12 can charge the battery via this plug with the CAN-BUS system, without switching the dashboard on. In this setup, connect the cigarette lighter adapter on the charger and on the motorbike's 12V socket then follow the «start up » procedure on the previous page. In certain cases, it is possible that the charge will only start 2 minutes after performing the connections.

• Protections :

The GYSFLASH 1.12 has several features to protect it against short-circuits or polarity inversion. It has an anti-spark feature which prevents sparks whilst connecting the device to the battery. This charger has double insulation and is compatible with vehicle's onboard electronics.

The GYSFLASH 1.12 is fitted with an integrated temperature probe that ensures that the charging current is adapted to the ambient temperature to prevent internal electronics' overheating.

TROUBLESHOOTING

	Symptoms	Causes	Remedies
1	The indicator ⚠ blinks rapidly.	• Polarity inversion • Battery voltage is too high	• Check that the clamps are properly connected. • Check that it is a 12V battery.
2	The indicator ⚠ blinks slowly.	Battery is faulty or has a very low voltage.	Change the battery.
3	The indicator ⚠ is on.	• Charge failure, battery non recoverable. • Thermal protection.	• Change the battery and restart a charge. • Ambient temperature is too high (>50°C), cool the room and let the charger cool down.
4	The indicator ⏻ blinks.	Charger in sleep mode.	Connect a battery to the charger to exit sleep mode.

WARRANTY

The warranty covers faulty workmanship for 2 years from the date of purchase (parts and labour).

The warranty does not cover:
• Transit damage.
• Normal wear of parts (eg. : cables, clamps, etc..).
• Damages due to misuse (power supply error, dropping of equipment, disassembling).
• Environment related failures (pollution, rust, dust).

In case of failure, return the unit to your distributor together with:
- The proof of purchase (receipt etc ...)
- A description of the fault reported