

- FR 2-13 / 86-88
- EN 14-25 / 86-88
- **DE** 26-37 / 86-88
- **ES** 38-49 / 86-88
- **RU** 50-61 / 86-88
- NL 62-73 / 86-88
- **IT** 74-85 / 86-88

GYSFLASH

51.12 CNT FV

101.12 CNT 121.12 CNT FV

123,12 CNT FV

125.12 CNT FV

101.24 CNT FV

103.24 CNT FV

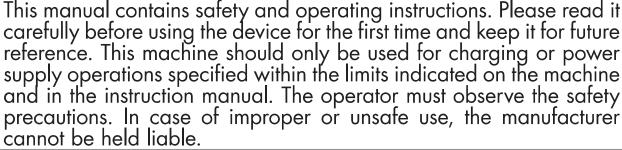
53.48 CNT FV





SAFETY INSTRUCTIONS







The device is destined to be used indoors. Must not be exposed to the rain.

This unit can be used by children aged 8 or over 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 have safely been read and potential risks understood. Children must not play with the product. Cleaning and maintenance should not be performed by an unsupervised child.

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

Do not use the charger if the mains cable or plug is damaged.

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.

Never use on a frozen or damaged battery.

Do not cover the device.

Do not place the unit near a heat source or expose to prolonged high temperatures (above 60°C).

Do not obstruct the cooling vents.

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



Fire and explosion risks!

• A battery can emit explosive gases when on charge.



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



- Avoid flames and sparks.
- Protect the electrical contact surfaces of the battery against short circuits.

Do not leave a charging battery unattended for a long time.



Risk of acid dispersion!



• Wear protective goggles and gloves.



 In case of contact with the eyes or the skin, rinse immediately with water and see a medical doctor as soon as possible.







Connection / disconnection :

 Disconnect the power supply before plugging or unplugging the connections to/from 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 line. The charger must be connected to the mains.

 After charging, disconnect the charger from the mains, then disconnect the negative clamp from the car body and then disconnect the positive clamp from the battery, in this order.



Connection:

- The charger must be connected to an earthed power supply.
- The connection to the power supply must be carried out in compliance with national standards.



Maintenance:

- If the power supply cable is damaged, the replacement cable must be obtained from the manufacturer or its service team.
- Maintenance should only be carried out by a qualified person.



- Warning! Always disconnect from the mains before performing maintenance on the device.
- The device does not require any specific maintenance.
- If the internal fuse is melted, it must be replaced by the manufacturer (GYS dedicated sales service) or by an equally qualified person to prevent any accidents.
- Do not use solvents or any agressive cleaning products.



Regulations:

- The Machine is compliant with European directives.
- The declaration of conformity is available on our website.



EAEC Conformity marking (Eurasian Economic Community).





- laration of Conformity is available on our website (see home page). Equipment in conformity with Moroccan standards.
- The declaration C_o (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 household bin.





GENERAL DESCRIPTION

Your GYSFLASH is a professional multifunctional charger with Inverter technology. Designed to support the batteries of demonstration vehicles or during the diagnostic work, it also guarantees an ideal quality of charge for the maintenance of the most advanced models. This charger can be fitted with cables up to 8 m long. Changing the charging cables requires recalibration (see page 21). It is considered a fixed device not a mobile product.

Your GYSFLASH is supplied with a software that includes 4 different modes to choose from:

- Charging mode: dedicated to the charging of lead-acid (sealed, liquid, AGM...) or lithium (LiFePO4) starter batteries.
- Power mode | Diag+: Supplies the energy required during diagnostic work on the vehicle.
- **Power mode | Showroom :** Maintains the charge of the battery and supplies the energy required when using the consumers of a demonstration vehicle.
- Tester Mode: Used to check the state of the battery and test the vehicle starting system and alternator.

Your GYSFLASH is SMART!

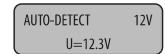
The original features of your GYSFLASH can be extended by adding specific charging modes and profiles using the USB port and custom settings (see page 23).

Your GYSFLASH also offers the possibility to recover data from several hundred charging operations on your USB stick for analysis on a spreadsheet.

Additional modules (such as printer, Ethernet port, etc.) can also be connected to the charger via its dedicated module socket.

Auto-Detect» function:

The GYSFLASH is equipped with the «Auto-Detect» function which automatically starts a charge when a battery is connected to the charger. (To enable/disable this function see page 21)



Auto-Restart» function:

The «Auto-Restart» function offers the possibility of automatically restarting the charger in the event of a power failure. (To enable/disable this function see page 21)

«Lock» function:

It is possible to lock the buttons on your GYSFLASH when it is used in a place open to the public or unattended. To activate/ deactivate the lock, press and hold $\stackrel{\blacktriangle}{}$ and $\stackrel{\blacktriangledown}{}$ for 3 seconds.

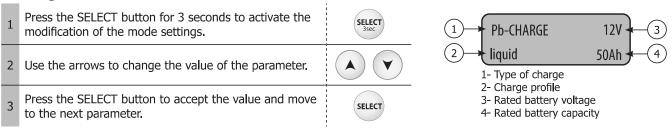
START UP

- 1. Connect the charger to the mains.
- 2. Set the switch, located at the back of the charger, to «ON».
- 3. Select the desired mode (Charge -> Showroom -> Diag+ -> Tester).

To access the «configuration» menu press the $\ensuremath{\left(\text{\tiny{MODE}}\right)}$ key for 3s :

CHARGE MODE

• Setting the mode:

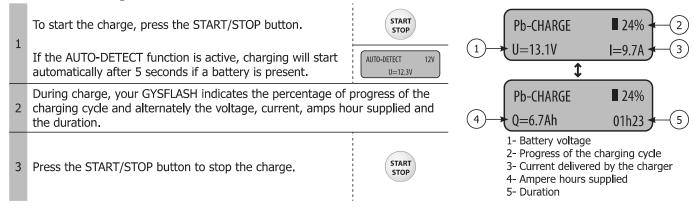


Charge type:	Profil	Charging voltage	
	normal	2.40 V/cell	Lead batteries of the types Gel, MF, EFB, SLA
	AGM	2.45 V/cell	Most AGM lead-acid batteries including START and STOP. However, some AGM batteries require a lower voltage charge (Normal profile). Check the battery manual if in doubt.
Pb-CHARGE	water	2.45 V/cell	Open liquid-type lead-acid batteries with cap.
	Easy	2.40 V/cell	Profile dedicated to lead batteries that automatically adapts the charging current according to the size of the battery. However, for maximum charge optimization, it is recommended, when possible, to use normal, AGM or liquid charge curves.
Li-CHARGE	LFP/LiFePO4	3.60 V/cell	Lithium batteries type LFP (Lithium Ferro Phosphate)





• Start of the charge:

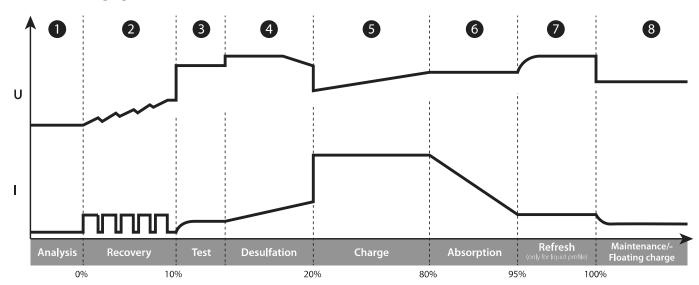


Precautions:

When charging a vehicle, it is recommended to reduce the vehicle power consumption to a minimum (switch off the lights, switch off the ignition, close the doors, etc.) in order not to disturb the charging process.

Precaution: Check the electrolyte level of any open battery. Fill it up if necessary, before starting the charge.

• Lead-acid charging curve:



Step 1 : Analysis

Analyses the state of the battery (charge level, polarity inversion, wrong battery...)

Step 2 : Recovery

Recovering damaged elements after deep and prolonged discharge.

Step 3 : Test

Sulfated battery test

Step 4 : Desulfation

Battery desulfation algorithm.

Step 5 : Charge

Fast charge at maximum current to reach 80% charge level.

Step 6: Absorption

Constant voltage charge to reach 100% charge level.

Step 7: Refresh (only for liquid profile)

The charger supplies an additional current to create gas that will allow the electrolyte to be mixed and thus reconditioning the battery cells. During this phase, the battery may produce some water.

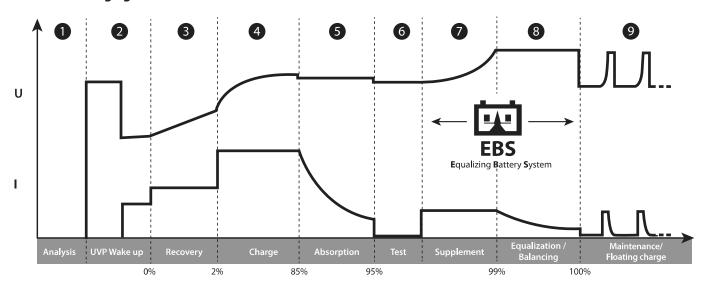
Step 8 : Maintenance/Floating charge

Maintains battery charge level at its maximum.





LFP Lithium charging curve:



Step 1: Analysis

Analyses the state of the battery (charge level, polarity inversion, wrong battery...)

Step 2: UVP Wake up

Reactivates batteries in UVP protection (Under Voltage Protection)

Step 3: Recovery

Recovery algorithm following a deep discharge.

Step 4 : Charge

Maximum current fast charge to reach an 90% charge level.

Step 5: Absorption

Constant voltage charge to reach a 95% charge level.

Step 6: Test

Charge conservation test.

Step 7 : Supplement

Reduce current charge to reach 100% charge level.

Step 8: Equalization / Balancing

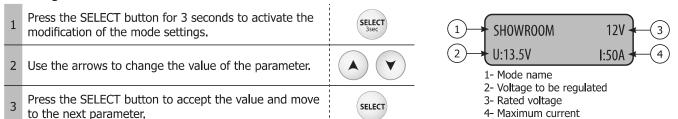
Balancing the battery cells

Step 9: Maintenance/Floating charge

Maintain the battery charge level at its maximum.

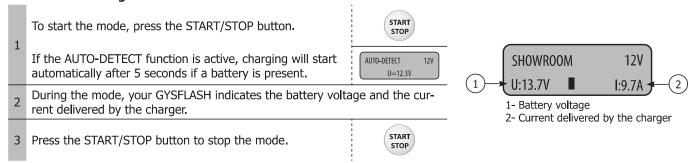
POWER SUPPLY MODES: SHOWROOM / DIAG+

• Setting the mode:



Power limitation: If the symbol «*» appears next to the current setting (eg «I: 50A *»), this indicates that the charger cannot deliver this current at the voltage set on the display. At this voltage level, the charger will be running at maximum power. However, this current could be delivered at lower voltage depending on the power output of the charger.

• Start of the charge:







Precautions:

When starting the mode, a current displayed above 10 A means that your battery is discharged. The device will start charging automatically Check that there is no electrical consumer on the vehicle. Wait until the current supplied drops below 10 A before starting any action on the vehicle (use of the vehicle's electrical accessories, diagnostic operation, etc.).

Features of the power modes:

Mode	«No Battery» function	«Integrated charging» function	Abnormal undervoltage protection	Voltage adjustment
SHOWROOM	✓	✓	✓	6V 6.3 V - 7.2 V* 12V 12.7 V - 14.4 V
				25.4 V - 28.8 V* 12.7 V - 14.8 V
DIAG+			~	12V 12.7 V - 14.8 V 24V 25.4 V - 29.6 V*

*GYSFLASH 103.24 CNT

«No battery» function (not recommended):

This function allows you to use the SHOWROOM power mode when there is no battery. To do this, press the START/STOP button for 3 seconds. The «No battery mode» indication is displayed for 3 seconds before forcing the power supply.



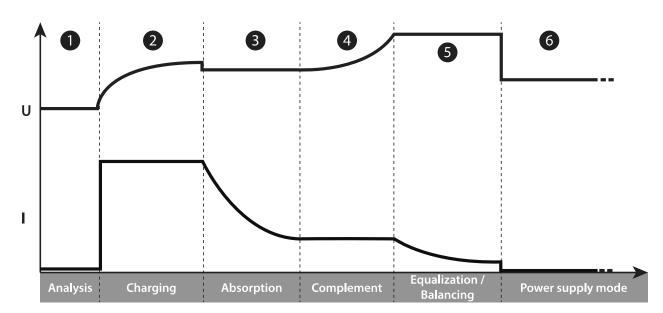


It is strongly recommended not to use the «no battery» function if a battery is present. This function disables the «Integrated charging» function, as well as some of the protections such as abnormal undervoltage protection or disconnection detection.

In this configuration, reverse polarity can damage the vehicle electronics.

• «Integrated charging» function:

The SHOWROOM mode (outside of the «no battery» function) incorporates an automatic charging algorithm adapted to all types of batteries (lead and lithium), in order to guarantee an optimal charge level for demonstration vehicles. This function is perfectly compatible with the presence of consumers on the battery.



Step 1: Analysis

Analysis of the battery condition (charge level, inversion, etc.) polarity, wrong battery connected, etc).

Step 2: Charging

Fast charging at maximum current until U1 is reached (ex: 13.8 V to 12V)

Step 3: Absorption

Charge under constant voltage U1 (ex: 13.8 V in 121). Maximum duration 1 hour.

Step 4: Complement

Gradual increase of the voltage up to U2 (ex: 14.4 V to 12V). Maximum duration 2 hours.

Step 5: Equalization / Balancing

Maintaining the voltage U2 (ex: 14.4V at 12V). *Maximum duration 2 hours.*

Step 6: Power supply mode

Application of the selected voltage.

Abnormal undervoltage protection:

This protection prevents the risk linked to possible short circuits or battery being too damaged. The charger will automatically stop if the voltage is abnormally low for more than 10 minutes.





TESTER MODE

General navigation:

1 Use the arrows to select the test to be performed

TESTER MODE

Voltage test

• Voltage test:

This mode allows you to view the voltage at the terminals of the charging clamps and thus use your GYSFLASH as a voltmeter, in order to measure the battery voltage.

Voltage test U=12.1V

• Start-up test:

The purpose of this mode is to evaluate the state of a vehicle starting system (starter + battery) when the engine is turned on. This test must be done with the battery connected to the vehicle.

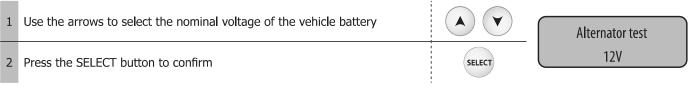
1	Use the arrows to select the nominal voltage of the vehicle battery	A Y	
2	Press the SELECT button to confirm	SELECT	Engine start test
3	Connect the clamps to the vehicle battery	<u> </u>	12V
4	Start the engine by turning the ignition key	Û •	
5	The charger automatically detects the engine start attempt and runs a calculate determine the state of the start system.	ation a l gorithm	

Test result: The charger indicates the minimum value of the battery voltage perceived during the engine start phase, as well as the status of the start system in the form of a gauge.

Engine start test
Umin=8.6V ■■■

• Alternator test :

This mode is used to determine the condition of the alternator in the vehicle. This test is performed on a vehicle with the engine running.



Test result: The charger indicates the voltage provided by the vehicle alternator, as well the alternator status in the form of a gauge.



PROTECTIONS

This device is protected against short circuits and polarity reversals. It has an anti-spark system that prevents sparks when connecting the charger to the battery. The device will not deliver current if there is no battery detected (no voltage in the clamps). This charger is protected against handling errors by an internal fuse.

CONFIGURATION MENU

Navigation:

Press the MODE button for 3 seconds to access the Configuration Menu







2	Use the arrows to scroll through the different parameters	(A) (V)
3	Press the SELECT button to select the parameter or enter the submenu.	SELECT
4	When a parameter is flashing, use the arrows to change its value	(A) (V)
5	Confirm the parameter value by pressing SELECT again	SELECT

Languages:

Selecting the display language.

(1) Sound:

Turning the unit's sound on (ON) or off (OFF).

Auto-Restart:

Enable (ON) or disable (OFF) the AUTO-RESTART function. This function automatically restarts the charger in the event of a power failure.

Auto-Detect:

Enable (ON) or disable (OFF) the AUTO-DETECT function. This function automatically starts a charge when a battery is connected to the charger.

Date:

Setting the date and time.

Cable calibration:

Procedure for calibrating the charging cables of the device, so that the charger optimally compensates for the voltage drop due to the cables. It is strongly recommended to perform this procedure at least once a year and each time the charging cables are replaced.

	Calibration procedure :	! ! !
1	Press SELECT to enter the CABLE CALIBRATION submenu	SELECT
2	Short-circuit the clamps	∃C 3E → } c3∈
3	Press START/STOP to start the calibration	START
4	 ∴ The calibration was successful. Err19: Cable_NOK: A problem occurred during cable calibration. 	

USB USB connectivity:

Sub-menu to access USB features.

USB USB CONNECTIVITY

Your GYSFLASH is equipped with USB connectivity that extends its functionality by creating custom configurations on your computer that can then be downloaded to the device via a simple USB stick. The custom configuration allows you to add, delete or modify charging modes and profiles, so that your charger can be adapted to your needs.

Check that the cables are in good condition and correctly short-circuited and repeat the operation.

USB connectivity also gives you the ability to retrieve the history and data of more than 100 recharge on a USB stick and run them on a spreadsheet.

Navigation:

1	Use the arrows to scroll through the different submenus or files available	A V
2	Press the SELECT button to enter the submenu or select a file.	SELECT
3	Use the MODE button to return to the previous submenu	MODE





Import a new configuration:

This function allows you to download a new configuration («.gfc» file) into the charger via the USB key.

First, make sure that the"".gfc"" file corresponding to the new configuration is present on the USB key. This file must not be located in a folder or subfolder of the USB stick.

2	Connect the USB stick to the charger.	
3	Enter the "Import CONFIG" submenu	Import CONFIG USB □⇒ □□□
4	Select the file to download	Select file config.gfc
5	Confirm the download of the file	Continue? Oui
6	The charger will then download the new configuration.	Loading

Export a configuration on a USB key:

This function allows you to save the current charger configuration («.gfc» file) to the USB stick.

	, , , , , , , , , , , , , , , , , , , ,	
1	Connect the USB stick to the charger.	•
2	Enter the "Export CONFIG" submenu	Export CONFIG
3	Confirm that the configuration has been saved.	Continue? YES
4	The charger will then save its current configuration on the USB stick. (file ""Config_file.gfc"").	Loading

Restore the previous configuration:

This function allows you to restore the second to last charger configuration in case of a problem or error with the last downloaded configuration.

1	Enter the "Restore CONFIG" submenu	Restore CONFIG
2	Confirm the restoration of the configuration.	Continue? YES
3	The charger will then restore the penultimate configuration of the charger.	Loading

Export charging data on USB stick:

This function allows you to retrieve the charge history and data on a USB key, in order to be able to use them on a spreadsheet or other.





2	Confirm the recording of the charging data.	Continue? Yes
3	The charger will then copy the charging data to the USB stick as files, $\mbox{\ensuremath{\mbox{\tiny CSV}}}\ \mbox{\ensuremath{\mbox{\tiny }}}\ \mbox{\ensuremath{\mbox{\tiny }}}$	Loading

Custom configuration

List of modes and profiles available for customization:

CHARGE MODE			
Charge type:	Charge profiles	Charging voltage	
	normal	2.40 V/cell	Charging profile for lead batteries of the types Gel, MF, EFB, SLA
	AGM	2.45 V/cell	Charging profile for most AGM lead-acid batteries including START and STOP. However, some AGM batteries require a lower voltage charge (Normal profile). Check the battery manual if in doubt.
	water	2.45 V/cell	Charging profile for open liquid-type lead-acid batteries with plug.
Pb-CHARGE	Easy	2.40 V/cell	Charging profile dedicated to lead batteries that automatically adapts the charging current according to the size of the battery. However, for maximum charge optimization, it is recommended, when possible, to use normal, AGM or liquid charge curves.
	boost	2.42 V/cell	Maximum current charge for lead-acid battery. This type of charge is ultra-fast. Warning: this type of charge must remain occasional in order to preserve battery life.
	recovery+	2.40 - 2.50 V/cell	Charging profile for the recovery of severely damaged lead batteries. It is essential to recover the battery outside the vehicle to avoid damaging the vehicle electronics and in a well ventilated area. Caution: Recovery voltage up to 4.0 V/cell.
	LFP/LiFePO4	3.60 V/cell	Charging profile for Lithium batteries type LFP (Lithium Ferro Phosphate)
	Li-ion std	4.20 V/cell	Charging profile for standard lithium-ion batteries based on Manganese or Cobalt (NMC, LCO, LMO, MCO)
Li-CHARGE	LFP cell+	3.60 V/cell	Charging profile dedicated to LFP (Lithium Ferro Phosphate) type lithium-ion cells with selection of the number of cells in series to be charged.
	Li-ion cell+	4.20 V/cell	Charging profile dedicated to standard lithium-ion cells based on Manganese or Cobalt (NMC, LCO, LMO, MCO) with selection of the number of cells in series to be charged.
TRACTION	water	2.42 V/cell	Charging profile dedicated to open lead traction batteries for forklift trucks.
TRACTION	gel	2.35 V/cell	Charging profile dedicated to gel-type traction batteries for forklift trucks.

POWER MODES	
Showroom	Maintains the battery's state of charge and supplies power when using the electrical consumers of a demonstration vehicle.
DIAG+	Supplies energy requirements during the vehicle diagnostic work.
CHANGE BAT.	Allows to keep the vehicle power supply during battery replacement, in order to preserve the memory of the vehicle's ECUs. Caution: Reverse polarity during use can be harmful to the charger and vehicle electronics.
STARTER MODE	Starting aid for combustion vehicles. Allows the battery to be precharged and the charger to send the maximum current during the engine starting phase (the charger stops automatically after 30 minutes).
POWER SUPPLY	Allows the charger to be used as an adjustable stabilized power supply with high power. The voltage to be regulated and the current limitation are fully adjustable. Caution: Reverse polarity during use can be harmful to the charger and vehicle electronics.
Li-SUPPLY/LFP	Mode intended to supply lithium-ion cells of the LFP type (Lithium Ferro Phosphate) with selection of the number of cells in series, adjustment of the voltage and current to be applied.
Li-SUPPLY/Li-ion	Mode intended to supply standard lithium-ion batteries based on Manganese or Cobalt (NMC, LCO, LMO, MCO) with selection of the number of cells in series, adjustment of the voltage and current to be applied.

MISCELLANEOUS	
TESTER MODE	Allows to check the state of the battery, to evaluate the starting of the vehicle as well as the operation of the alternator





These settings are available on the product page of the GYS website: Gysflash V01.00 ▼

			CHARGE MODE										POWER MODES					MIS- CELLA- NEOUS			
			Pb-CHARGE			Li-CHARGE			TRACTION												
Configuration file (gys.fr)	Applications	normal	AGM	water	Easy	Boost	Recovery+	LFP/LiFePO4	Li-ion std	LFP cell+	Li-ion cell+	water	leg	SHOWROOM	DIAG+	CHANGE BAT.	STARTER MODE	POWER SUPPLY	Li-SUPPLY/LFP	Li-SUPPLY/Li-ion	TESTER MODE
1_gys_original.gfc	Initial configuration of the charger	~	~	~	~			~						~	~						V
2_car_extended.gfc	Extensive features for garages	V	~	~	~	~	V	~						V	V	V	~	~			V
3_showroom_only.gfc	Simplified version for dealerships and demonstration vehicles													~							
4_pro_lithium.gfc	Professional of lithium battery							~	V	~	~							^	~	V	
5_traction.gfc	Forklift truck, electric pallet truck, stacker											V	V								
6_full_version.gfc	Full version	V	~	~	~	~	V	~	V	~	~	~	V	~	V	V	~	~	~	V	~

CONNECTIVITY MODULES

Your GYSFLASH is equipped with a DB9 type socket allowing you to connect various additional modules offered by GYS such as a printer, Ethernet or other module in order to further extend the possibilities of your charger.

LIST OF ERROR CODES

	Error code	Meaning	Solutions						
1	Err01: Int_1 - Err02: Int_2 Err23: Int_3	Electronic problem Defective charger	Contact the reseller						
2	Err03: Fuse_NOK	Output fuse out of order	Have the fuse replaced by a qualified person						
3	Err04: T>Tmax	Abnormal overheating	Contact the reseller						
4	Err05: (+)(-)	The polarity has been reversed on the clamps	Connect the red clamp to the (+) and the black clamp to the (-) of the battery.						
5	Err06: U>V	Overvoltage detected at the clamp terminals	Disconnect the clamps						
6	Err07: No_bat	Battery not connected	Check that the battery is correctly connected to the charger						
			Check that the selected mode is compatible with the battery voltage (e. g. : 6 V battery in 24 V mode)						
7	Err08: U <v< td=""><td>Abnormally low battery voltage</td><td colspan="5">Charge the battery via CHARGE mode</td></v<>	Abnormally low battery voltage	Charge the battery via CHARGE mode						
			Battery to be replaced						
8	Err09: U>V	Abnormally high battery voltage	Check that the selected mode is compatible with the battery voltage (e. g. : 24 V battery in 12 V mode)						
9	Err10: U>2.0V	Short-circuit detected during the charge process	Check the assembly						
10	Err11: Time_Out	Triggering the time limit	Presence of a consumer on the battery disrupting the charge						
10		Abnormally long charge	Battery to be replaced						
11	Err12: Q>Ah	Tripping the overcharge protection	Presence of a consumer on the battery disrupting the charge						
11		Imporing the overcharge protection	Battery to be replaced						
12	Err13: U <v< td=""><td>Abnormally low battery voltage when checking the charge</td><td colspan="6">Battery to be replaced</td></v<>	Abnormally low battery voltage when checking the charge	Battery to be replaced						
12	Err14: Bat_UVP	Abnormally low battery voltage during	Presence of a short circuit, check the assembly						
13		UVP Wake up	Battery to be replaced						
14	Err15: U <v< td=""><td>Battery too low</td><td colspan="5">Check that the selected mode is compatible with the battery voltage (e. g. : 24 V battery in 12 V mode)</td></v<>	Battery too low	Check that the selected mode is compatible with the battery voltage (e. g. : 24 V battery in 12 V mode)						
			Battery to be replaced						
15	Err16: Bat_NOK	Battery out of order	Battery to be replaced						
16	Err17: Recov_NOK	Battery recovery failure	Battery to be replaced						
17	Err18: U>0V	Presence of a voltage at the clamp terminals when calibrating the cables	Check the assembly						





18	Err19: Cable NOK	Cable calibration failure	Charging cables to be replaced					
10	LITT9. Cable_NOK	Cable Calibration failure	Incorrect connection, check the assembly					
19	Err20: U <v< td=""><td>Triggering of the abnormal undervoltage protection</td><td colspan="6">Presence of a short circuit, check the assembly</td></v<>	Triggering of the abnormal undervoltage protection	Presence of a short circuit, check the assembly					
20	Err21: U <v err22:="" or="" td="" u<v<=""><td>Abnormally low battery voltage during</td><td colspan="5">Battery to be replaced</td></v>	Abnormally low battery voltage during	Battery to be replaced					
20		charging	Presence of a consumer on the battery					
21	USB : ?	Key not detected	Check that the USB key is correctly connected to the charger.					
22	· gFt ?	No configuration file (.gfc) is present on the key	Check that your files are present at the root of the USB key. Do not put them in a folder or sub-folder.					
23		Corrupted file	The file you wish to download is corrupted. Delete and reinstall the file on the key.					

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



SPÉCIFICATIONS TECHNIQUES / TECHNICAL FEATURES / TECHNISCHE EIGENSCHAFTEN / ESPECIFICACIONES TÉCNICAS/ ТЕХНИЧЕСКИЕ СПЕЦИФИКАЦИИ / TECHNISCHE SPECIFICATIES

•								
		GYSFLASH 51.12 CNT FV	GYSFLASH 101.12 CNT	GYSFLASH 121.12 CNT FV GYSFLASH 123.12 CNT FV GYSFLASH 125.12 CNT FV	GYSFLASH 101,24 CNT FV GYSFLASH 103,24 CNT FV	GYSFLASH 53.48 CNT FV		
Tension d'alimentation assignée Rated input voltage Netzspannung Tensión de red asignada	gnée питания . ed input voltage Nominale voedingsspanning zspannung Tensione di alimentazione		220-240 VAC ~ 50/60Hz	220-240 VA 100-127 VA	220-240VAC ~ 50/60Hz 100-127VAC ~ 50/60Hz			
Puissance assignée Rated power Bemessungsstrom Potencia asignada	Номинальная мощность Nominale vermogen Potenza nominale	850 W	1600 W	2000 W (220-240Vac) 1500 W (100-127Vac)	3200 W (220-240Vac) 1500 W (100-127Vac)	3200W (220-240Vac) 1500W (100-127Vac)		
Rendement Efficiency Wirkungsgrad Rendimiento	Производительность Opbrengst Rendimento	93%	94%	90%	929	!%		
Fusible d'entrée Input fuse Eingangssicherung Fusible de entrada	Входной плавкий предохранитель Zekering Fusibile d'entrata	T 1 ——— (5x	-		-			
Tensions de sortie assignées Rated output voltage Bemessungsspannung Tensiones de salida asignadas	Номинальные выходные напряжения Uitgaande nominale spanning Tensione di uscita nominale.		12 VDC		6 VDC 12 VDC 24 VDC	6 VDC 12 VDC 24 VDC 36VDC 48VDC		
Plage de tension Voltage range Spannungsbereich Rango de tensión	Диапазон напряжения Spanningsbereik Intervallo di tensione	2 - 32 V	2	- 16 V	2 - 32 V	2 – 64V		
Courant de sortie assignée Rated output current Nennstrom Corriente de salida asignada	Номинальный выходной ток Uitgaande nominale spanning Corrente di uscita nominale	50 A	100 A	120 A (220-240Vac) 100 A (100-127Vac)	100 A (220-240Vac) 50 A (24 VDC / 100-127Vac) 100 A (12 VDC / 100- 127Vac)	50 A (220-240Vac) 25 A (48VDC / 100-127Vac) 50 A (24VDC / 100-127Vac)		
Fusible de sortie Output fuse Ausgangsicherung Fusible de salida	Выходной плавкий предохранитель Zekering Fusibile d'uscita	80 A	125 A	15	0 A	80 A		
Type de batterie Battery type Batteriearte Tipo de batería	Тип аккумулятора Accu soort Tipo di batteria		dard ım-ion andard lar андартный dard aard					
Capacité assignée de batterie Rated battery capacity Nennkapazität der Batterie Capacidad asignada de batería	Номинальная емкость батареи Nominale accu capaciteit Capacità nominale della batteria	10 - 600 Ah	20 - 1200 Ah	20 - 1500 Ah	20 - 1200 Ah	10 – 600 Ah		
Consommation batteries au repos Battery consumtion when idle Rückstrom Consumo de baterías en reposo	Потребление АКБ в нерабочем состоянии Accu verbruik in ruststand Consumo batterie in riposo			< 0.2 Ah / mois				
Température de fonction- nement Operating temperature Betriebstemperatur Temperatura de funciona- miento	Рабочая температура Werktemperatuur Temperatura di funziona- mento			-20°C – +60°C				
Température de stockage Storage temperature Lagertemperatur Temperatura de almacenado	Температура хранения Opslagtemperatuur Temperatura di stoccaggio			-20°C – +80°C				
Indice de protection Protection rating Schutzart Índice de protección	Степень защиты Beschermingsklasse Indice di protezione	IP41*	IP21 IP31 (cables plugged)	IP20 (121.12 CNT) IP30 (123.12 CNT) IP40*(125.12 CNT)	IP20 (101.24 CNT) IP30 (103.24 CNT)	IP30		
Classe de protection Protection class Schutzklasse Clase de protección	Класс защиты Beschermingsklasse Classe di protezione			Class I				
Poids (cable secteur) Weight (including mains cable) Peso (cables de corriente) Вес (включая кабели питания и заряда)	Gewicht (inkl. Stecker) Gewicht van het toestel (incl. kabels) Peso (cavi alimentazione)	4.7	Kg		6.5 Kg			
Dimensions (L x H x P) Dimensions (L x H x D) Abmessungen (B x H x T) Dimensiones (L x A x A)	Размеры (Д x B x Ш) Afmetingen (L x H x B) Dimensioni (L x H x P)	300 x 105 x 300 mm	320 x 105 x 292 mm	325 x 130 x 270 mm (121.12 CNT FV) 340 x 250 x 150 mm (123.12 CNT FV) 333 x 130 x 270 mm (125.12 CNT)	325 x 130 x 270 mm (101.24 CNT) 340 x 250 x 150 mm (103.24 CNT)	340 x 250 x 150 mm		
Normes Standards	Нормы Normen		EN 60335-1 / EN 60335-	2-29 / EN 62233 / CEI EN 6052	29 / EN 50581 / EN 55014-1 /			



Norme



*Afin de respecter l'IP 4X, 2 entretoises (fournies avec le GYSFLASH) doivent être vissées au niveau du connecteur SMC.
*In order to comply with IP 4X, 2 spacers (supplied with the GYSFLASH) must be screwed to the SMC connector.
*Um die IP 4X zu erfüllen, müssen 2 Abstandshalter (im Lieferumfang des GYSFLASH enthalten) an den SMC-Stecker geschraubt werden.
*Para cumplir con el IP 4X, deben atornillarse 2 espaciadores (suministrado con la GYSFLASH) al conector SMC.
*В целях соблюдения IP 4X к SMC-разъему должны быть прикручены 2 распорных (поставляется с GYSFLASH) прокладки.
*Om aan IP 4X te voldoen, moeten 2 afstandshouders (meegeleverd met de GYSFLASH) op de SMC connector worden geschroefd.
*Por recence conferma a IP 4X 2 descriptions in GYSFLASH).

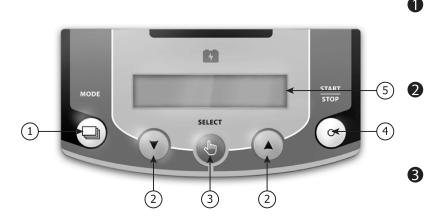
*Per essere conforme a IP 4X, 2 distanziatori (fornito con il GYSFLASH) devono essere avvitati al connettore SMC.

Normas

EN 60335-1 / EN 60335-2-29 / EN 62233 / CEI EN 60529 / EN 50581 / EN 55014-1 / EN 55014-2 / CEI 61000-3-2 / CEI 61000-3-3



FACE AVANT / FRONT / FRONTSEITE / DELANTERA / ПЕРЕДНЯЯ ПАНЕЛЬ / VOORKANT / FRONTALE



FR: Bouton Mode EN: Button Mode DE: Mode Knopf ES: Botón Modo RU: Кнопка Mode

NL : Modus knop IT : Tasto Mode

FR: Boutons + ou -EN: Buttons + or -DE: + oder - Knöpfe ES: Botones + o -RU: Кнопки + или -NL: Knop + of -

IT : Tasti + o -

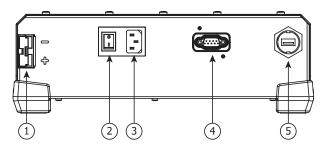
FR: Bouton Select EN: Button Select DE: Select Knopf ES: Botón Select RU: Кнопка Select NL: Select knop IT: Tasto Select FR: Bouton Start/Stop EN: Button Start/Stop DE: Start/Stop Knopf ES: Botón Start/Stop RU: KHONKA Start/Stop NL: Start/Stop knop IT: Tasto Start/Stop

> FR : Afficheur EN : Display DE : Display ES : Pantalla RU : Индикатор NL : Weergavescherm

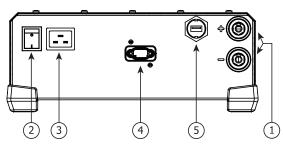
IT: Schermo

CONNECTIQUES / CONNECTORS / ANSCHLÜSSE / CONECTORES / KOHHHHEKTOPЫ / CONNECTORS / CONNETTORI

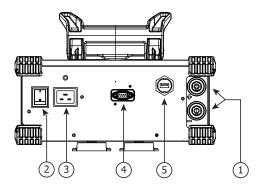
GYSFLASH 51.12 CNT / 101.12 CNT



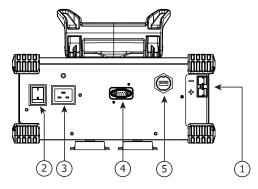
GYSFLASH 121.12 CNT / 101.24 CNT / 125.12 CNT



GYSFLASH 123.12 CNT / 103.24 CNT



GYSFLASH **53.48** CNT



FR : Connecteur de charge

EN: Charging connector DE: Ladeanschluss ES: Conector de carga RU: Коннектор зарядки

RU : Коннектор зарядки NL : Aansluiting laden IT : Connettore di carica FR: Interrupteur marche/arrêt

EN: On/off switch
DE: EIN/AUS Schalter

ES: Interruptor encendido / apagado

RU : Переключатель ВКЛ/ВЫКЛ NL : Schakelaar aan/uit

IT : Interruttore avvio/stop

FR : Prise secteur EN : Mains plug

DE : Netzsteckdose ES : Clavija de corriente RU : Сетевая вилка

NL : Stopcontact IT : Spina

FR: Connecteur pour module additionnel GYS (type Sub-D 9)

EN: Connector for GYS additional module (type Sub-D 9)

DE: Anschluss für zusätzlichen Modul GYS (Typ Sub-D 9)

ES: Conector para modulo adicional GYS (tipo Sub-D9)

RU: Коннектор для дополнительного модуля GYS (типа Sub-D 9)

NL : Aansluiting voor extra module GYS (type Sub-D 9)

IT: Connettore per modulo aggiuntivo GYS (tipo Sub-D 9)

FR: Connecteur USB
EN: USB connector
DE: USB-Anschluss
ES: Conector USB
RU: Konector USB
NL: USB aansluiting
IT: Connettore USB



GYS SAS

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