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GYTECH 7000



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FOR YOUR SAFETY

This manual contains important safety and operating instructions. Read this manual carefully before using the charger for the first time and keep it in a safe place for future reference.

PRODUCT FEATURE

GYSTECH 7000 is designed for charging a variety of SLA (Sealed Lead Acid) batteries, widely used in cars and several other vehicles. The batteries may be of various types i.e. WET/Flooded (Liquid Electrolyte), GEL (Gelatin type Electrolyte, absorbed into the plates), AGM (Absorbed Glass Mat) batteries. Gystech :

- charges 12V batteries (6 cells of 2V) from 14 Ah to 130 Ah, or provides maintenance charge for 12V batteries from 14 to 230 Ah.
- charges 24V batteries (12 cells of 2V) from 14 Ah to 60 Ah, or provides maintenance charge for 24V batteries from 14 to 120 Ah.

It automatically detects the nominal voltage of the battery connected (12/24) (> 7.8 V).

SAFETY INFORMATION

- Do not use it for any other purposes
- Do not attempt to charge non rechargeable batteries
- Respect the rating of the fuse, which is indicated on the charger.
- Do not cover the charger while charging.
- The charger must be placed in such a way that the socket is accessible.
- Follow fuse size/type indicated on the charger.
- If the power supply cable is damaged it must be replaced by the manufacturer, its after-sales department or by a qualified person in order to avoid danger.
- Before the charge, read the instructions. Disconnect the power supply before plugging or unplugging connexions on the battery. **Warning** : Explosive gas, avoid flames and sparks. Insure a sufficient aeration while charging.
- Charging should be carried out in a well-ventilated, weather protected facility.
- Separate collection required. Do not throw in a domestic dustbin.
- This device can be used by children older than 8 and people with reduced physical, sensory or mental capacities or without any experience, if they are properly supervised or if instructions to use the device safely has been given and if the risks incurred have been understood. Children must not play with the device. Cleaning and maintenance by the user must not be done by children with no supervision.

CONNECTIONS

❶ Charging of a permanently installed battery in a vehicle

- a- Before connecting or disconnecting the battery leads, the power cord should be removed from the mains.
- b- Check polarity of battery posts. A positive ("+") battery post usually has a larger diameter than a negative one.
- c- Identify the pole of battery which is connected to the chassis (earth). Normally the negative terminal is connected to the chassis.
- d- Charging of negative earthed battery :
 - Make sure the black wire ("-" pole connection) has no contact with the fuel line or the battery.
 - Connect the red wire ("+") to the positive ("+") pole of the battery and the black wire ("-") to the vehicle chassis.
- e- Charging of positive earthed battery :
 - Make sure the red wire ("+" pole connection) has no contact with the fuel line or the battery.
 - Connect the black wire ("-") to the negative ("-") pole of the battery and the red wire ("+") to the vehicle chassis

❷ Charging of a battery not connected to a vehicle

a- Before connecting or disconnecting the battery leads, the power cord should be removed from the mains.

b- Connect the red wire ("+") to the positive ("+") pole of the battery and the black wire ("-") to the negative ("-") pole.

3 Permanent connection to the vehicle battery (cable with eyelet terminals = accessories n°15)

Warning : during the mounting, do not connect the charger to the cable with eyelet terminals.

a- Connect the red cable to the positive battery's pole

b- Connect the black cable to the negative battery's pole

c- Fix your cable to the vehicle chassis

Make sure that the cable is not being pinched or in contact with warm surfaces or sharp edges.












d- After this, the quick contact of the charger can be connected.

4 After charging, disconnect the battery charger from supply mains. Then remove the chassis connection and the battery connection, in this order. In case of permanent connection to the vehicle battery, first disconnect the battery charger from supply mains, then from the battery connection.

SUGGESTED MODES AND SELECTION


Gystech 7000 provides 5 modes : 2 charging modes and 3 specific modes.

To select your charging mode, please refer to the following table and explanations (page 4 and 5 : charging modes and specific modes) :

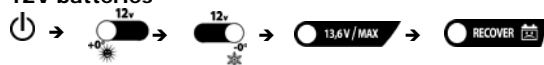
MODES		BATTERY USE			BATTERY VOLTAGE & SIZE
		EMERGENCY (i.e.alarm)	IN CYCLE* (=charging/discharging ; i.e. : sweeper...)	AUTOMOBILE (battery with or without maintenance)	
Charging modes	12V			Normal condition	12V 14 to 230 Ah
				Cold condition	
	24V			Normal condition	24V 14 to 120 Ah
				Cold condition	
Specific modes	13,6V / Max				12V 14 to 230 Ah
	Recover				12V 14 to 230 Ah
	Supply 5A	 	« Alimentation » mode (substitute battery)		

* Remark: to recharge sealed batteries used in cycle, select the « cold » mode.

Select charging mode


At the beginning of the charging process, the charger begins functioning in the last operation mode (except in the 13,6V/Supply mode or 16V Boost mode) and automatically checks the voltage of the battery (12V/24V). Press on  to select another mode between the charging modes which are suggested in the following order :

12V batteries




24V batteries




To obtain the supply 5A mode, press on  during 3 seconds.

CHARGING MODES

For 12V batteries


12V mode (+0°C) 

The charger begins the charging process with a current intensity of $7A \pm 10\%$. The charging process goes on by different stapes until to reach a voltage of $14.4V \pm 0,25V$. A maintenance current is then delivered to maintain the battery fully charged up.


12V mode (-0°C) 

The charger begins the charging process with a current intensity of $7A \pm 10\%$. The charging process goes on by different stapes until to reach a voltage of $14.7V \pm 0,25V$. A maintenance current is then delivered to maintain the battery fully charged up.

For 24V batteries

24V mode (+0°C) 

The charger begins the charging process with a current intensity of $3,5A \pm 10\%$. The charging process goes on by different stapes until to reach a voltage of $28.8V \pm 0,25V$. A maintenance current is then delivered to maintain the battery fully charged up.





24V mode (-0°C) 

The charger begins the charging process with a current intensity of $3,5A \pm 10\%$. The charging process goes on by different stapes until to reach a voltage of $29.4V \pm 0,25V$. A maintenance current is then delivered to maintain the battery fully charged up.

Charging process and indicators

Once connected to the battery and at the beginning of the charging process, Gystech 7000 will automatically checks the voltage of the battery.

The different charging stapes are described by the following light indicators :

 →  →  → 				Charging state	Charging process
Flash	-	-	-	< 25%	Diagnostic
On	Flash	-	-	< 50%	Main charge
On	On	Flash	-	< 75%	Main charge
On	On	On	Flash	< 100%	Equalization
On	On	On	On	100%	Maintenance charge

Charging time

Battery size (Ah)	Charging time from 20 % to 80% (hours)	
	12V battery	24V battery
14	2H30 charge	4H50 charge
60	7H30 charge	15H charge
100	12H charge	24H charge
120	15 H charge	30 H charge
230	29 H charge	-

SPECIFIC MODES :


MODE RECOVER

This function is useful to « recover » most of the 12V batteries, from 14 to 230 AH, which started a sulphating process (which occurs when a battery is maintained in a state of discharge during one day or more). **Before using this mode, it is compulsory to remove the battery from the vehicle.**

With this mode, the charger provides a voltage of $16,5V \pm 0,2V$ with a limited current of $1,5A \pm 10\%$. If the battery is deeply discharged ($4,5V$), the function will be active during 3 hours maximum. As soon as the battery is accepting the charge, the charger will shift automatically to the charge mode : the indicator "recover" blinks differently (0.5s ON / 1s off) and the charge indicators blink according to the evolution of the charge.


MODE 13,6V/Max.

This function is useful to maintain the charging process during an extended period (for instance: wintering) the 12V batteries, waterproof or without maintenance (SLA, VLRA, AGM, GEL) from 14 to 230Ah. It is particularly adapted for batteries which capacitance should always be at the maximum, as for instance golf cars, power sweeper, or batteries used for emergency...


Select the mode by pressing , until the indicator 13,6V/Max lights. With this function, Gystech 7000 will start the maintenance charge with a constant voltage of $13,6V \pm 0,2V$ and with a limited current of $5A \pm 10\%$. The protections anti-spark and against the overloads are activated.

MODE SUPPLY 5A.

This function changes your battery charger into a power supply (without any need to connect a battery). The charger provides a voltage of 12V with a limited current of $5A \pm 0,5A$. With this mode, the anti-spark system is disabled. However, the protection against the polarity reversal keeps active.

To choose this function, press 3 seconds on .






PROTECTION

Gystech 7000 charger is protected against short circuits and polarity inversion. Its anti-spark system avoids any spark while connecting the charger to the battery (inactive system with the supply mode). The charger protects itself (charging interruption +  indicator switched on if the battery voltage is $< 4,5V \pm 0,5V$ for a 12V battery or $< 16V \pm 0,5V$ for a 24V battery).

Gystech 7000 charger is protected by a thermal sensor. During the charging process, if the charger becomes too hot or due to extreme ambient temperature, the power output is automatically reduced to protect itself from damage. Charger increases power automatically when the ambient temperature drops.

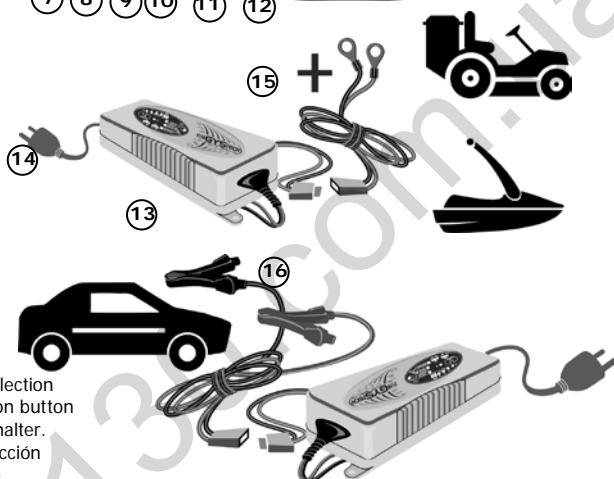
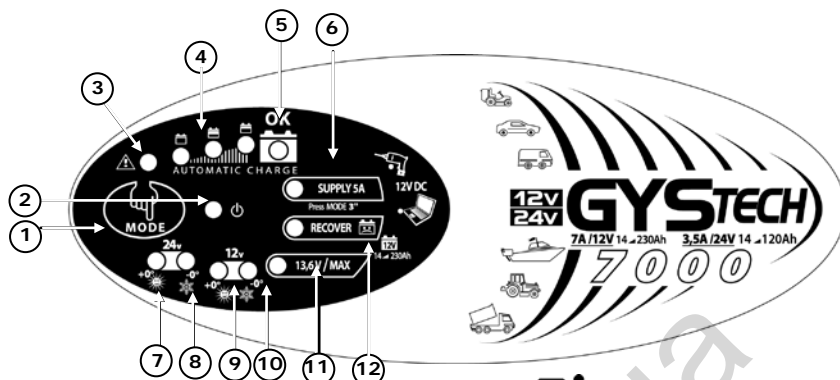
PROBLEMS, CAUSES AND SOLUTIONS

In case of problem, the charger automatically switches on protection mode and the power indicator lights on. The system will remain in that position until the user intervenes.

	Problem	Causes	Solutions
12V/24V / 13,6V / recover modes	Indicator switched on 	<ul style="list-style-type: none"> ▪ Short circuit ▪ Circuit open ▪ Battery voltage $< 4,5V \pm 0,5$ (for a 12V battery) or $< 16V \pm 0,25$ (for a 24V battery) ▪ The charger is in diagnostic process for more than 7 hours ▪ in Main Charge Process for more than 40 hours 	1- Check that there is no voltage loss in the vehicle circuit 2- Check that the clamps are well connected 3- After corrections, if the indicator  is still on, the sulfated or damaged battery may be replaced (nb : are you in 12V or 13,6V mode maximum ? Please try the recovery function)
	Indicators  and  switched on	Polarity reversal	Check that the clamps are well connected
12V/24V modes	after having pressed on  , the charge indicators blink	The charger analyses if it detects a well charged battery of 12V or a deeply discharged one of 24V (automatic selection of the voltage)	Normal behaviour of the charger : Wait for the end of the analysis (1 or 2 minutes)

Recovery mode	The recover indicator blinks but the charge evolution indicators haven't changed for several hours.	Damaged battery	Cannot be recovered, needs to be replaced
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- ① Bouton de sélection
Mode selection button
Mode- Umschalter.
Tecla de selección
Selectie knop
- ② Voyant veille / protection
Standby indicator
Bereit Anzeige
Indicador de stand-by
Standby LED / beveiliging
- ③ Erreur de polarité
Incorrect polarity/Fault
"falsche Polarität"
Error de polaridad
Polariteitsfout
- ④ En cours de charge
Charging in progress
Ladeanzeige
Carga en proceso
Aan het laden
- ⑤ Charge terminée
Fully charged
Voolladung erreicht
Carga efectuada
Einde laden

- ⑥ Mode/Modus/ Modo/
Modus Supply 5A
- ⑦ Mode/Modus/ Modo/Modus
24V >0°C
- ⑧ Mode /Modus/ Modo/Modus
24V <0°C
- ⑨ Mode /Modus/ Modo/Modus
12V >0°C
- ⑩ Mode/Modus/ Modo/Modus
12V <0°C
- ⑪ 13,6V/Max
- ⑫ Recover

- ⑬ Trou de fixation
Mounting holes
Befestigungslaschen
Agujero de fijación
Bevestiginga aat
- ⑭ Câble secteur avec prise
Mains cable with power plug
Netzanschlussleitung mit Stecker
Cable con enchufe
Voedingskabel met stekker
- ⑮ Câble de connexion fixe
Permanent connection cable
Ringkabelschuh
Cable de conexión fijo
Vaste aansluitkabel
- ⑯ Pincas de charge
Quick clamps
Ladeklemmen
Pinzas de carga
Laad klemmen