



#### PHONES

(044) 360-7-130  
 (050) 336-0-130  
 (063) 788-0-130  
 (067) 233-0-130  
 (068) 282-0-130

# 130

COM.UA

## Internet store of autogoods



#### ICQ

294-0-130  
 597-0-130

SKYPE  
 km-130

CAR RECEIVERS — Receivers • Media receivers and stations • Native receivers • CD/DVD changers • FM-modulators/USB adapters • Flash memory • Facia plates and adapters • Antennas • Accessories |  
 CAR AUDIO — Car audio speakers • Amplifiers • Subwoofers • Processors • Crossovers • Headphones • Accessories | TRIP COMPUTERS — Universal computers • Model computers • Accessories |  
 GPS NAVIGATORS — Portable GPS • Built-in GPS • GPS modules • GPS trackers • Antennas for GPS navigators • Accessories | VIDEO — DVR • TV sets and monitors • Car TV tuners • Cameras • Videomodules • Transcoders • Car TV antennas • Accessories | SECURITY SYSTEMS — Car alarms • Bike alarms • Mechanical blockers • Immobilizers • Sensors • Accessories | OPTIC AND LIGHT — Xenon • Bixenon • Lamps • LED • Stroboscopes • Optic and Headlights • Washers • Light, rain sensors • Accessories | PARKTRONICS AND MIRRORS — Rear parktronic • Front parktronic • Combined parktronic • Rear-view mirrors • Accessories | HEATING AND COOLING — Seat heaters • Mirrors heaters • Screen-wipers heaters • Engine heaters • Auto-refrigerators • Air conditioning units • Accessories | TUNING — Vibro-isolation • Noise-isolation • Tint films • Accessories | ACCESSORIES — Radar-detectors • Handsfree, Bluetooth • Windowlifters • Compressors • Beeps, loudspeakers • Measuring instruments • Cleaners • Carsits • Miscellaneous | MOUNTING — Installation kits • Upholstery • Grilles • Tubes • Cable and wire • Tools • Miscellaneous | POWER — Batteries • Converters • Start-charging equipment • Capacitors • Accessories | MARINE AUDIO AND ELECTRONICS — Marine receivers • Marine audio speakers • Marine subwoofers • Marine amplifiers • Accessories | CAR CARE PRODUCTS — Additives • Washer fluid • Care accessories • Car polish • Flavors • Adhesives and sealants | LIQUID AND OIL — Motor oil • Transmission oil • Brake fluid • Antifreeze • Technical lubricant



In store "130" you can find and buy almost all necessary goods for your auto in Kyiv and other cities, delivery by ground and postal services. Our experienced consultants will provide you with exhaustive information and help you to chose the very particular thing. We are waiting for you at the address

<http://130.com.ua>



**FR** 2-8 / 57-58

**EN** 9-14 / 57-58

**DE** 15-21 / 57-58

**ES** 22-28 / 57-58

**RU** 29-35 / 57-58

**CN** 36-41 / 57-58

**NL** 42-48 / 57-58

**IT** 49-55 / 57-58

**NEOSTART 320**  
**NEOSTART 420**  
**NEOSTART 620**

## SAFETY INSTRUCTIONS



This manual includes guidelines on the operation of your device and the precautions to follow for your own safety. Ensure it is read carefully before first use and keep it handy for future reference. These instructions should be read and understood before anyone operates the product. Any modifications or maintenance that are not specified in the manual should not be undertaken. The manufacturer is not liable for any injury or damage due to non-compliance with the instruction manual. In case of problems or uncertainties, please consult a qualified person that is able to handle the device correctly. This device should only be used for start-up power supply within the limits indicated on the device and in the manual. The safety instructions must be followed. In case of improper or unsafe use, the manufacturer cannot be held responsible.



Device suitable for indoor use only. Do not expose to rain or excessive moisture.

This device may be used by children from age 8 and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, provided that they are under supervision or have been told how to use the device safely and are aware of the potential risks. Children must not use the device as a plaything. Cleaning and servicing tasks may not be carried out by children unless they are supervised.

Do not use for charging non-rechargeable batteries

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

Never charge a frozen or damaged battery.

Do not cover the device

Do not place the device near a fire or subject it to heat or to longterm temperatures exceeding 50°C

Do not obstruct the cooling vents. Refer to the installation section before operating the machine.

The automatic mode of operation and usage restrictions are explained below in these operating instructions.



### **Risk of explosion and fire!**

A battery being charged can emit explosive gas.

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







- Avoid flames and sparks. Do not smoke.
- Protect the electrical contacts of the battery against short-circuiting.



### **Acid projection hazard!**



- Wear safety goggles and protective gloves



- If your eyes or skin come into contact with battery acid, rinse the affected part of the body with plenty of water and seek immediate medical assistance.

### **Connection / disconnection:**

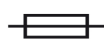


- Disconnect the power supply before connecting/disconnecting the device to/from the battery
- The terminal of the battery that is not connected to the car frame must be connected first. The other connection must be made on the car frame, far from the battery and the fuel line. The battery charger must be connected to the power supply network.
- After the charging process, disconnect the battery charger from the power supply network and remove the connector from the car frame and then the connector from the battery, in this order.

### **Connection:**



- This device must be connected to an earthed power supply.



- This machine is fuse-protected.

### **Maintenance:**



- If the power supply cable is damaged, it must be replaced by the manufacturer, its service agent or an equally qualified person.
- Service should be performed by a qualified person.
- Warning! Always remove the power plug from the wall socket before carrying out any work on the device.
- Regularly take off the cover and remove dust with an air gun. Take the opportunity to have a qualified person check the electrical connections with an insulated tool.

- Under no circumstances should solvents or other aggressive cleaning agents be used.
- Clean the device's surfaces with a soft, dry cloth.

## Regulations :



- The device complies with European Directive.
- The certificate of compliance is available on our website.



- EAC conformity mark (Eurasian Economic Commission)



## Disposal:



- This product should be disposed of at an appropriate recycling facility. Do not dispose of in domestic waste.
- Product whose manufacturer is involved in the packaging's recycling process by contributing to a global system of sorting, collecting and recycling of households' packaging waste.



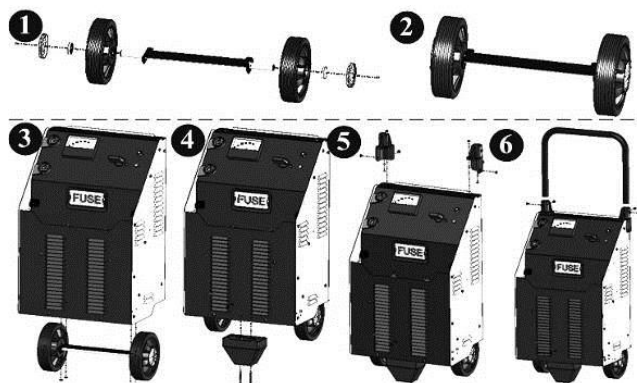
- Recyclable product that falls within waste sorting recommendations

## GENERAL DESCRIPTION

The NEOSTART range is designed to charge and start lead-acid batteries, 12V (6 elements) and 24V (12 elements) :

	Recharge	Starting
Neostart 320	40 - 400 Ah	35 - 120 Ah
Neostart 420	25 - 600 Ah	35 - 160 Ah
Neostart 620	45 - 900 Ah	45 - 200 Ah

Assembling the handle and the wheels (only for the NEOSTART 420 et 620 ) :



## POWER SUPPLY

Check that the power supply and its protection (fuse and/or circuit breaker) are compatible with the current needed by the machine. The device must be positioned so that the socket is always accessible.

The machine must be connected to a single phase socket (230 V) WITH earth protected by a 16A circuit breaker.

## CONNECTION AND DISCONNECTION

**IMPORTANT !** Before any connection to a vehicle battery, make sure that the booster isn't connected to the mains and that the booster's switch is set to OFF (if applicable).

Also, check the battery polarity.

Warning : the cables must not be kinked or in contact with hot or sharp surfaces.

- Disconnect any electronic system from the battery during the charge (do not charge the battery when it's connected to the vehicle).

### Start and charge a battery in-situ :

In the event that the negative terminal is plugged to the car's chassis :

- Connect the red clamp to the battery's positive + terminal.
- Connect the black clamp to the vehicle's chassis, make sure it is a safe distance from the battery and the fuel/exhaust pipe.
- Connect the device to the mains.
- After use, set the switch to OFF, disconnect the charger from the mains then remove the black clamp, followed by the red clamp.

Some vehicles have the positive terminal connected to the chassis , in that case :

- Connect the black clamp to the battery's negative - terminal.
- Connect the red clamp to the vehicle's chassis, make sure it is a safe distance from the battery and the fuel/exhaust pipe (any combustible piping).
- Connect the device to the mains.
- After use, set the switch to OFF, disconnect the charger from the mains then remove the red clamp, followed by the black clamp.

### Charging a battery when disconnected from the vehicle :

- Connect the red clamp to the battery's positive terminal and the black clamp to the battery's negative terminal.
- After use, set the switch to OFF, disconnect the charger from the mains then remove the red clamp, followed by the black clamp.

## USE IN CHARGING MODE

### Preliminary precautions

- Choose a sheltered and well ventilated area, or a dedicated battery charging area.
- Remove the battery caps (if applicable) and make sure that the liquid level (electrolyte) is sufficient. If not, add demineralised water and carefully clean the battery lugs and terminals.
- Check that the battery capacity (Ampere hour Ah) and the voltage (Volt V) are compatible with your charger.
- We recommend disconnecting the whole electronic system battery while charging (do not charge the battery when connected to the vehicle). Risk of vehicle electronics damage.

### Charge monitoring and state of charge

**WARNING :** These are traditional chargers. The battery charge will require monitoring and the charge will stop when the operator will set the switch to «OFF» or disconnect the charger from the mains

Once the battery is charged, the liquid (electrolyte) contained in the battery will boil. When this starts, it is recommended to stop the charge to prevent any damage to the battery.

Moreover, if the battery is connected to the vehicle (in-situ), a prolonged unmonitored charge may damage the vehicle's on-board electronics. A sulfated battery that cannot be charged can potentially lead to damage of the on-board electronics, as soon as the connection starts.

The end of the charge is when the ammeter's pin is indicated a value between 0 and 10 A, or by a charge time of 10 h.

### Sealed battery

For a sealed battery, it is necessary to be extra careful. The charge must be performed while constantly monitoring the voltage at the battery terminals. It is recommended to stop the charge when the voltage reaches 14.4 V for a 12 V battery and 28.8 V for a 24 V battery. This voltage can be measured with a voltmeter.

### Charge

Once the charger is connected to the vehicle battery while following the instructions (see connections and disconnections),

#### For the NEOSTART 320 :

- Set the switch to CHARGE or BOOST 1 with regards to the battery capacity..

Warning : In Boost 1 mode, the thermal protection may activate if the battery is deeply discharged.

	<b>CHARGE (12-24V)</b>	<b>BOOST 1 (12-24V)</b>
Neostart 320	40 - 160 Ah (11A)	90 - 400 Ah (27A)

**For the NEOSTART 420 and 620 :**

- Set the switch to CHARGE 1 or CHARGE 2 with regards to the battery capacity.

	<b>CHARGE 1 (12-24V)</b>	<b>CHARGE 2 (12-24V)</b>
Neostart 420	25 - 90 Ah (6A)	90 - 300 Ah (20A)
Neostart 620	45 - 140 Ah (10A)	140 - 450 Ah (30A)

After usage, follow the recommended disconnection procedure.

**Charging several batteries simultaneously.**

It is possible to charge several batteries simultaneously by connecting them in parallel. The positive terminals connected to the red clamp and the negative terminals connected to the black clamp. These batteries or battery groups must be of the same voltage, 12V or 24V.

Charging batteries in series is not recommended.

**USE IN STARTER MODE**
**Preliminary precautions**

- Do not disconnect the battery from the vehicle. Connecting the battery can lead to the vehicle's memory loss and a potential impossibility to restart it.

**Start**

Once the charger is connected to the vehicle battery while following the instructions (see connections and disconnections), it may be necessary to perform a pre charge in order to start the vehicle.

To perform a pre charge, set the switch to «BOOST 2» for the NEOSTART 320 and «BOOST» for the NEOSTART 420 and 620.

**NEOSTART 320 :**

		<b>Instantaneous</b>	<b>5 min pre charge</b>
Neostart 320	12 V	35 - 60 Ah	60 - 120 Ah
	24 V	35 - 45 Ah	45 - 90 Ah

**NEOSTART 420 and 620 :**

	<b>Instantaneously</b>	<b>5 min pre charge</b>
Neostart 420	35 - 80 Ah	80 - 160 Ah
Neostart 620	45 - 100 Ah	100 - 200 Ah

To start the vehicle, set the switch to «START». Reach the vehicle controls. By turning the key, the start mode activates. This mode must be stopped once the vehicle is started. It is recommended to do this with 2 people so that the person close to the NEOSTART can switch to START at the exact moment and stop the device once the vehicle has started.

If your engine does not start, wait 2 minutes between each start attempt. The attempt must last 3 seconds at most.

Nb : If the vehicle does not start, it may be a problem other than a faulty battery e.g. alternator, glowplug...

After the use, follow the disconnection procedure.

**PROTECTIONS**

These clamps have been designed for maximum protection :

- The charging clamps are fully insulated.
- A fuse guarantees protection against polarity inversion and short circuits.
  - Neostart 420 and 620 : ref. 054547, calibre 200 A (type SIBA V-Fuse / open type)
  - Neostart 320 : ref. 054639, calibre 150 A (type Littlefuse BF1 / 32 V)

Replacing it requires manual intervention..

- A breaker, on the front panel, guarantees protection against transformer overloads and start attempts in charge mode. If the breaker trips, it needs to be manually activated.
- The thermal protection is monitored by a thermostat (cooling for approximately 1/4h). The green indicator switches off in the even of overheating.

## SULFATED OR DAMAGED BATTERIES

The NEOSTART does not detect sulfated or damaged batteries.

- The battery is badly damaged when in charge, the ammeter pin goes up quickly to very high intensities. The battery is permanently damaged.
- In the event of a sulfated battery : set the device to «BOOST» for the Neostart 420 and 620 or «BOOST 2» for the Neostart 320 and regularly check that the amperemeter indicates a charging current. As soon as the charging current rises, set a charge that matches the battery capacity. If there are no improvement after 5 hours, the battery is permanently damaged.

Warning - This must be done with the battery disconnected from the vehicle !

## TROUBLESHOOTING

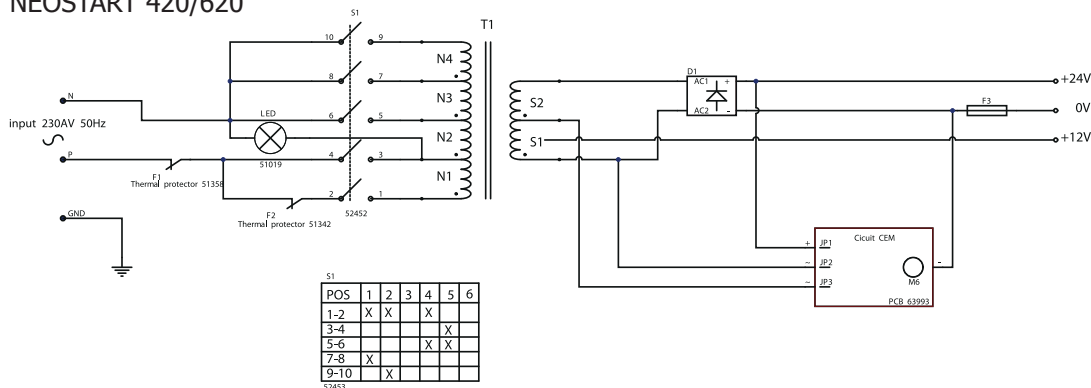
Symptoms	Causes	Remedies
The machine's ammeter does not fluctuate .	Power supply problem.	Check your mains power supply.
		Check that the device is on charge mode.
	Clamps in short circuit or polarity reversal.	Check that the fuses have not melted and that the circuit breaker is not tripped
	The battery that you are trying to charge is faulty.	Check the terminals' voltage with a voltmeter. If this voltage jumps instantaneously to 2.5V per element, the battery may be sulfated or damaged.
	Voltage error (12 -24V)	Check that the switch is on the right setting (12 or 24V)
	Following intensive use, your device has entered thermal protection mode.	Wait 1/4h so the device can cool down.
The charger is properly connected but it does not charge the battery	Blown fuse	Replace the fuse by a new one.
	Bad clamp connections.	Clean the terminals and the clamps. Check the state of the cables and clamps.
	Wrong charge settings	Check that the selected voltage matches the battery voltage.
	Following intensive use, your device has entered thermal protection mode.	Wait 1/4h so the device can cool down.
The ammeter's pin goes above the maximum marking while the device is set to minimum intensity.	The battery is deeply discharged.	Keep charging using the minimum setting .
	Voltage error (12 -24V)	Check that the switch is on the right setting (12 or 24V)
	Your battery has elements in short circuit.	Damaged battery Replace the battery.
The fuse blows every time it is replaced	Polarity reversal	Connect the + clamp to the battery's (+) and the - clamp to the battery's (-).
	Wrong charge settings	Check that the selected voltage matches the battery voltage.
	Current overconsumption on the battery	Do not draw any of the battery's current during the charge
	The machine is charging a 12V battery in 24V mode	Set the switch to 12V.
The fuse trips.	Starts are attempted while the device is in charge mode.	Make sure to set the switch to « start » to prevent damage to the machine. Reset the circuit breaker.
	You are charging a 12V battery in 24V mode	Set the switch to 12V.
After charging for a whole day, the end of charge indicator does not switch on.	The battery is damaged	Change the battery.
	The machine is charging a 24V battery in 12V mode	Set the switch to 24V.



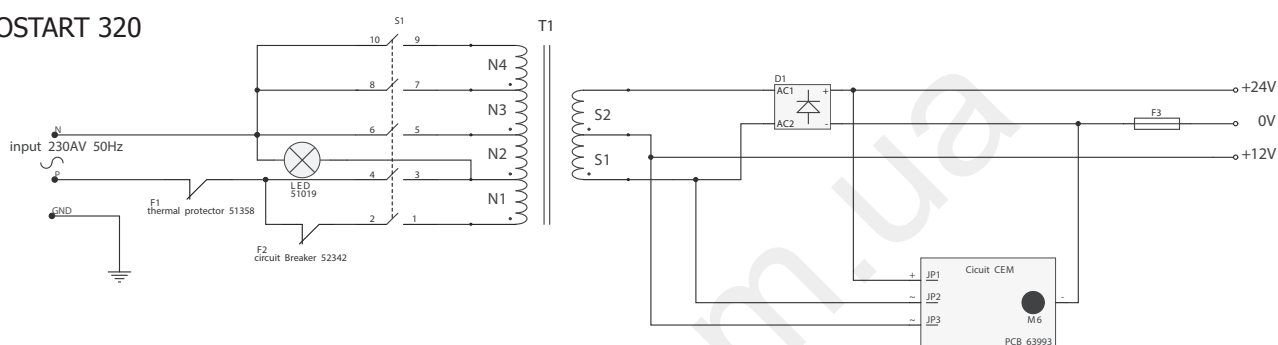
# NEOSTART 320 / 420 / 620

## SCHÉMA ÉLECTRIQUE / CIRCUIT DIAGRAM / SCHALTPLAN / DIAGRAMA ELECTRICO / ЭЛЕКТРИЧЕСКАЯ СХЕМА / 电路图 / ELECTRISCHE SCHEMA / DIAGRAMMA DEL CIRCUITO

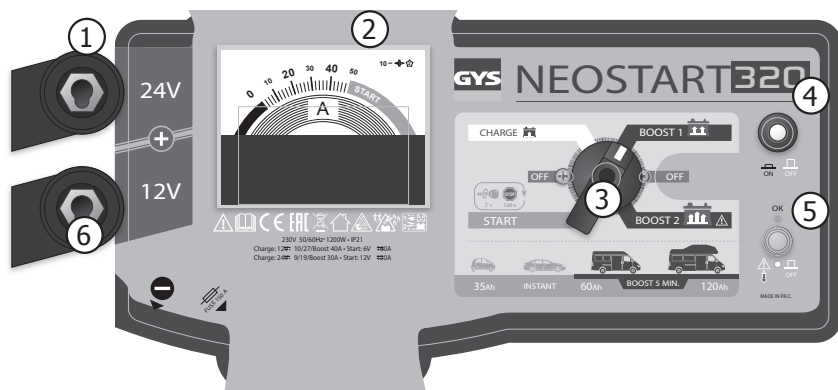
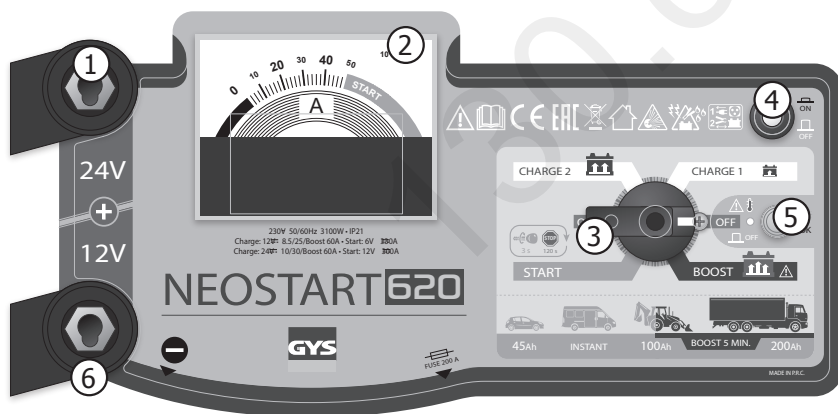
### NEOSTART 420/620



### NEOSTART 320



## CLAVIER DE COMMANDE / CONTROL PANEL / BEDIENFELD / TABLA DE MANDOS / ПАНЕЛЬ УПРАВЛЕНИЯ / 控制面板 / BEDIENINGSPANEEL / PANNELLO DI CONTROLLO



1	Branchement pince pour batterie 24V / Output for 24V battery / Anschluss für 24V Batterie / Borne para batería 24V / Клемма для 24В Батарей / 24V输出接线端 / Klemmen aansluiting voor een 24V accu / Output per batterij 24V
2	Ampèremètre / Ammeter / Amperemeter / Amperímetro / Амперметр / 电流表 / Ampèremeter / Amperometro
3	Commutateur / Switch / Schalter / Conmutador / Переключатель / 旋钮 / Schakelaar / Interruttore
4	Disjoncteur / Circuit breaker / Schutzschalter / Disyuntor / родохранитель / 断路器开关 / Stroomonderbreker / Disgiuntore
5	Voyant de protection thermique / Thermal protection LED / Thermoschutzanzeige / Piloto de protección térmica / Индикатор термозащиты / 过热保护指示灯 / Thermische beveiliging lampje / Protezione termica LED
6	Branchement pince pour batterie 12V / Output for 12V battery / Anschluss für 12V Batterie / Borne para batería 12V / Клемма для 12В Батарей / 12V输出接线端 / Klemmen aansluiting voor een 12V accu / Protezione termica LED

**ICÔNES / SYMBOLS / ZEICHNERKLÄRUNG / ICONOS / СИМБОЛЫ / SYMBOLEN / ICONE / 标志**

	Attention ! Lire le manuel d'instruction avant utilisation. / Caution ! Read the user manual. / Achtung! Lesen Sie die Betriebsanleitung. / Cuidado, lea el manual de uso antes del empleo / Внимание ! Читайте инструкцию перед использованием. / Let op! Voor gebruik lees aandachtig de handleiding. / Attenzione! Leggere il manuale d'istruzioni prima dell'uso. / 警告！请阅读用户手册
	Pour usage à l'intérieur seulement. / For interior use only. / Nur für den Gebrauch in geschlossenen Räumen geeignet. / Solo para un uso en interior. / Только использовать в помещении. / Voor binnenlands gebruik, stel niet aan de regen bloot. / Da utilizzare al coperto, non esporre alla pioggia. / 在室内使用，不要暴露在雨中
	Attention! gaz explosifs. Risque de projections acides. / Warning! contains explosive gas. / Achtung, Gase können Explosionen verursachen. / Atención : contiene gases explosivos. / Внимание: взрывоопасные газы. / Opgelet : bevat explosief gas, blijft van vlammen of bron van vonken weg ! / Attenzione gas esplosivi, evitare la formazione di fiamme e scintille. / 警告含有爆炸性的气体
	Eviter les flammes et les étincelles. / Avoid flames and sparks. / Vermeiden Sie stets Feuer und Funkenflug. / Evitar las llamas y las chispas. / избегайте пламени и искр. / Bescherming tegen het binnendringen van vinger en tegen water druppels vallen. / Evitare fiamme e scintille. Non fumare. / 有酸性喷雾风险
	Assurer une aération suffisante pendant la charge. / During the charge the battery must be placed in a well ventilated area. / Sorgen Sie für ausreichende Belüftung während des Ladevorgangs. / Asegurar una ventilación suficiente durante la carga. / Обеспечивать необходимую вентиляцию во время заряда. / Kies een beschutte ruimte met het aangewezen luchten. / Scegliere un posto al riparo e sufficientemente ventilato o specialmente allestito. / 选择阴凉和通风良好的房间存放。
	Déconnecter l'alimentation avant de brancher ou de débrancher les connexions sur la batterie. / Disconnect the power supply before connecting the device to/from the battery. / Desconecte la alimentación eléctrica antes de conectar o desconectar las conexiones sobre la batería. / Отключите подачу питания перед тем как подключать или отключать соединения к батарее. / Koppel de stroomvoorziening af alvorens de accu aan te sluiten of los te koppelen. / Scollegare l'alimentazione prima di collegare o scollegare le connessioni della batteria. / 连接机器前请先断开电源连接，或者断开电池上的连接。
	Appareil conforme aux Directives Européennes. / The device complies with European Directive. / Gerät entspricht europäischen Richtlinien. / El aparato cumple con las directivas europeas. / Устройство соответствует европейским нормам. / Het apparaat is in overeenstemming met de Europese richtlijnen. / Dispositivo in conformità alle direttive europee. / 该设备符合欧盟指令
	Marque de conformité EAC (Communauté économique Eurasienne). / Conformity mark EAC (Eurasian Economic Commission). / EAC-Konformitätszeichen (Eurasische Wirtschaftsgemeinschaft). / Marca de conformidad EAC (Comunidad económica euroasiática). / Маркировка соответствия EAC (Евразийское экономическое сообщество). / EAC (Euraziatische Economische Gemeenschap) merkteken van overeenstemming. / Marca di conformità EAC (Comunità Economica Eurasiatica). / 符合EAC（欧洲经济共同体）规定的标志
	Produit faisant l'objet d'une collecte sélective- Ne pas jeter dans une poubelle domestique. / Waste Electrical and Electronic Equipment, separate waste collection required, Do not throw in a domestic bin. / Für die Entsorgung Ihres Gerätes gelten besondere Bestimmungen (Sondermüll). Es darf nicht mit dem Hausmüll entsorgt werden. / Este aparato es objeto de una recolección selectiva. No tirar en una basura doméstica. / Устройство требует специальной утилизации. Не выбрасывать с бытовыми отходами. / Afzonderlijke inzameling vereist - Gooi het niet in het huishoudelijk afval. / Prodotto soggetto alla raccolta differenziata - Non buttare nei rifiuti domestici. / Attenzione! Leggere il manuale d'istruzioni prima dell'uso. / 分类收集要求-请不要扔进生活垃圾。
	Protégé contre l'accès aux parties dangereuses des corps solides de diam>12,5mm (équivalent doigt de la main) Protégé contre l'accès aux parties dangereuses avec un doigt, et contre les chutes verticales de gouttes d'eau. / Protected against rain and against fingers access to dangerous parts. / Schutz vor Eindringen von festen Fremdkörpern (Durchmesser >12,5mm = Finger einer Hand). Schutz gegen Berühren mit einem Finger und senkrecht fallendes Tropfwasser. / protegido contra el acceso a partes peligrosas con el dedo, y contra las caídas verticales de gotas de agua. / Защищен против доступа твердых тел диаметром > 12,5 мм (размером с палец руки) в опасные места. Защищен против доступа пальцев в опасные места и против вертикального попадания капель воды. / Beschermtd tegen toegang tot gevaarlijke delen met een vinger en tegen verticaal vallende waterdruppels. / Aree Pericolose protette per impedire il contatto con l'utente, e contro cadute verticali di gocce d'acqua. / 防止雨水和手指接触危险部件

130.com.ua



**GYS SAS**

134 Boulevard des Loges – BP 4159  
53940 SAINT BERTHEVIN – FRANCE