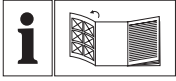




GB IE

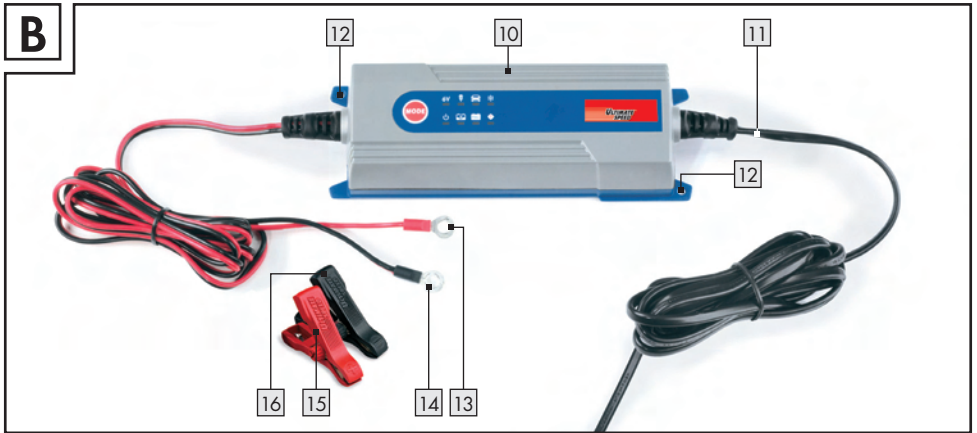
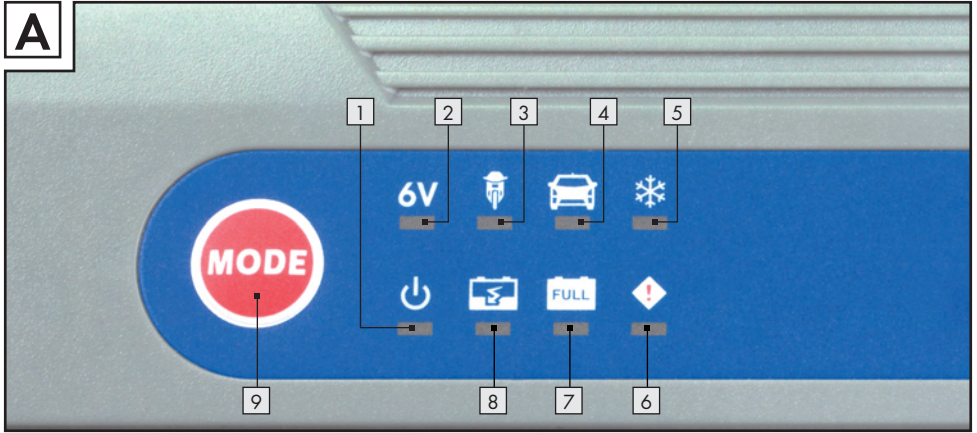
## **CAR BATTERY CHARGER**

Operation and Safety Notes



GB IE

Before reading, unfold the page containing the illustrations and familiarise yourself with all functions of the device.








## Introduction

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**The following pictograms are used in these operating instructions / on the device:**

	Read instruction manual!		Volt (AC)
	Observe caution and safety notes!		Safety class II
	Caution – electric shock! Danger to life!		For indoor use only!
	Risk of explosion!		Keep children away from electrical devices!
	Risk of fire!		Check that the device, mains lead and plug are in good condition!
<b>W</b>	Watts (Effective power)		

**Car battery charger ULG 3.8 A1**

● **Introduction**

 Please carefully read these operating instructions and fold out the page with the illustrations. Keep these operating instructions in a safe place and hand them over to anyone to whom you pass on the appliance.

● **Proper Use**

The ULTIMATE SPEED ULG 3.8 A1 is a battery charger with a pulse trickle charge mode and is suitable for charging and maintenance charging of the following 6V or 12V lead rechargeable batteries with wet cell or gel electrolyte:

- 6V: with a capacity of 1.2 Ah to 14 Ah
- 12V: with a capacity of 1.2 Ah to 14 Ah
- 12V: with a capacity of 14 Ah to 120 Ah

You can also use it to regenerate completely discharged batteries. The battery charger has protective circuits to prevent sparking and overheating. Any incorrect or improper use leads to loss of the warranty. The manufacturer takes no responsibility for damage(s) arising out of usage that is contrary to the instructions

laid down. The appliance is not meant for commercial use.









● **Delivery Contents**

Check the appliance and all accessories for damage immediately after unpacking. Do not put a defective appliance or parts into operation.

- 1 Charger ULTIMATE SPEED ULG 3.8 A1
- 2 Quick/contact clamps (1 red, 1 black)
- 1 Operating manual

● **Component description**




see Fig. A:

- 1  LED display (standby)
- 2  „6V“ LED display „Mode 1“
- 3  LED display „Mode 2“
- 4  LED display „Mode 3“
- 5  LED display „Mode 4“
- 6  LED display „incorrect polarity / fault“
- 7  LED display „fully charged“
- 8  LED display „Charging process active“
- 9 ● Selection button „MODE“

**see Fig. B:**

- 10 Charging station
- 11 Mains lead
- 12 Mounting holes
- 13 „+“-Pole connection cable (red), incl. ring shoe
- 14 „-“-Pole connection cable (black), incl. ring shoe
- 15 „+“-Pole quick-contact terminal (red), incl. red fixing screw
- 16 „-“-Pole quick-contact terminal (black), incl. black fixing screw

## ● Technical Data



Input voltage:	220-230-240V ~ 50/60Hz
Power consumption:	60W
Reverse current*:	< 5 mA (no AC input)
Nominal output voltage:	6V  / 12V 
Nominal output current:	0.8A / 3.8A
Charging voltage:	7.3V or 14.4V or 14.7V
Charging current:	0.8A ± 10% 3.8A ± 10%
Battery type:	6V lead-acid battery 1.2Ah-14Ah 12V lead-acid battery 1.2Ah-120Ah
Housing protection type:	IP 65 (dust-tight, protected against water jets)
Safety class:	

\* = Return current is the current used by the charging station battery, when no mains current is connected.

## ● Safety




### Safety information

-  **DANGER!** Avoid danger to life and limbs caused by improper use!
-  **CAUTION! Do not operate the appliance with a damaged cable, power cord or plug.** A damaged power cord causes danger to life by electric shock.

- If damaged, have the power cord repaired by authorised and trained technicians only! Please contact the service department for your country!



### **PROTECT YOURSELF FROM AN ELECTRIC SHOCK!**

- When connecting the charging station, use a screwdriver and a spanner with an insulated handle!
- **DANGER OF ELECTRIC SHOCK!** Do not operate the vehicle if you are charging a battery while it is still in the vehicle! Switch off the ignition and park the vehicle. Apply the parking brake (e.g. in cars) or secure with a mooring rope (e.g. electric boat)!
- **DANGER OF ELECTRIC SHOCK!** Disconnect the battery charger from the mains before you make or break the connections to the battery.
  - First connect the clamp that is not connected to vehicle bodywork, then connect the other clamp to the vehicle bodywork at a point away from the battery and the fuel line. After this is done, you can connect the battery charger to the mains.
  - After charging, disconnect the battery charger from the mains. Then disconnect the clamp attached to the vehicle bodywork before you disconnect the clamp from the battery.
- **DANGER OF ELECTRIC SHOCK!** Handle the connecting cables („-“ and „+“) by their insulated areas only!
- **DANGER OF ELECTRIC SHOCK!** Ensure that there is complete protection from moisture at the connections to the battery and at the mains outlet socket!
- **DANGER OF ELECTRIC SHOCK!** Carry out the mounting, maintenance and cleaning of the battery charger only when it is disconnected from mains!
- **DANGER OF ELECTRIC SHOCK!** After completion of the charging and maintenance charging process on a battery mounted in a vehicle, first disconnect the negative connection cable (black) of the battery charger from the negative terminal of the battery.
-  **Do not leave small children unattended with the battery charger!** Children are too young to assess the possible dangers associated with

electrical devices. Children should be supervised in order to ensure that they do not play with the device.

- Children or persons who lack the knowledge or experience to use the device or whose physical, sensory or intellectual capacities are limited must never be allowed to use the device without supervision or instruction by a person responsible for their safety.



## **EXPLOSION HAZARD!**

### **Protect yourself from a highly explosive oxyhydrogen gas**

**reaction!** Gaseous hydrogen can leak from the battery during the charging and discharging process. Oxyhydrogen gas is an explosive mixture of gaseous hydrogen and oxygen. The result is the so-called oxyhydrogen reaction upon contact with open fire (flames, embers or sparks)! Carry out the charging or discharging procedure in a wellventilated room protected from the weather. Make sure that there are no sources of open fire (flames, embers or sparks) in the vicinity when charging or discharging batteries!

- **RISK OF EXPLOSION OR FIRE!** Ensure that the use of the battery charger cannot ignite any explosive or combustible substances, e.g. petrol or solvents!



## **⚠ WARNING! EXPLOSIVE GASES!**

**AVOID FLAMES AND SPARKS!** Ensure that there is adequate ventilation during the charging process.

- Stand the battery on a well ventilated surface while charging. Otherwise the device could be damaged.
- **DANGER OF EXPLOSION!** Ensure that the positive terminal connection cable does not come into contact with a fuel line (e.g. petrol line)!

## **⚠ DANGER OF CHEMICAL BURNS! Protect**

**your eyes and skin against chemical burns caused by acid (sulphuric acid) upon contact with the battery!** Wear:

Acid-resistant glasses, clothing and gloves! If your eyes or skin come into contact with sulphuric acid, rinse the affected part of the body with plenty of clear running water and seek immediate medical assistance!

- Avoid causing an electrical short-circuit when connecting the battery charger to the battery.

Connect the minus pole connecting cable only to the minus pole of the battery or to the car body. Connect the plus pole connecting cable only to the plus pole of the battery!

- Before connecting to the mains, make sure that the mains current is equipped with standard 230V ~ 50Hz, PEN conductor, a 16A fuse and a residual-current circuit-breaker! Otherwise the device could be damaged.
- Do not place the battery charger near fire, heat, or subject it to prolonged temperatures of over 50 °C! The output from the battery charger drops automatically in high temperatures.
- Avoid damaging any lines carrying fuel, electricity, brake fluid, hydraulic oil or water. Be particularly careful not to cause damage when mounting the charger in place with screws! Failure to observe this advice risks loss of life or injury!
- Use only the supplied original manufacturer's parts with the battery charger!
- Do not allow any objects to cover the battery charger! Otherwise the device could be damaged.
- Protect the electrical contacts of the battery against short-circuiting!
- Use the battery charger only for charging and maintenance charging of undamaged 6V/12V lead batteries (wet cell or gel electrolyte)! Otherwise damage to property could occur.
- Do not use the battery charger for charging or maintenance charging of disposable batteries. Otherwise damage to property could occur.
- Do not use the battery charger for charging or maintenance charging of damaged or frozen batteries! Otherwise damage to property could occur.
- Before connecting the charging station, read the information on battery maintenance in the operating instructions of the battery! Otherwise personal injury and/or damage to the device could occur.
- Before connecting the charging station to a battery permanently installed in a vehicle, read the information on electrical safety and maintenance in the operating instructions of the vehicle! Otherwise personal injury and/or damage to the device could occur.



- Unplug the charger from the mains supply when not being used! This also benefits the environment. Consider how much electricity is consumed, even in standby mode.
- Remain alert at all times and always watch what you are doing. Always proceed with caution and do not use the battery charger if you cannot concentrate or feel unwell.

## ● Product features

This appliance has been designed for charging a variety of SLA batteries (sealed lead acid batteries), as mainly used in cars, motorbikes and several other vehicles. They may be of types e.g. WET (with liquid electrolyte), GEL (with mit gel-type electrolyte) or AGM (absorbed glass mat) batteries. A special design of the appliance (also named „three-phase-charging strategy“) enables the recharging of the battery to almost 100% of its original capacity. Connecting the battery for a long period to the battery charger is also a good way of ensuring that your battery is kept in optimum condition.

## ● Operation

**⚠ WARNING!** Before you carry out any work on the battery charger always pull the mains plug out of the mains socket.

**⚠ WARNING! DANGER OF ELECTRIC SHOCK! DANGER OF DAMAGE TO PROPERTY! DANGER OF INJURY!** Ensure that you do not strike electrical cables, gas or water pipes when you are drilling into the wall. If necessary, check the wall using a suitable detector before you drill.

- You may find it convenient to attach the battery charger on to a board or a wall. Screw the two screws through the mounting holes **12** into the board or wall.

## ● Connection

- Before starting the charging or discharging procedure on a permanently installed battery

in a vehicle, first disconnect the minus pole connecting cable (black) of the vehicle from the minus pole of the battery. The minus pole of the battery is usually connected to the car body.

- Then disconnect the plus pole connecting cable (red) of the vehicle from the plus pole of the battery.
- First attach the „+“ quick-release clamp (red) **15** of the battery charger to the „+“ terminal of the battery (see Fig. C).
- Attach the „-“ quick-release clamp (black) **16** of the battery charger to the „-“ terminal of the battery (see Fig. C).
- Connect the mains lead **11** of the battery charger to an electrical power outlet socket.

## ● Disconnecting

- Disconnect the appliance from the power supply.
- Detach the „-“ quick-release clamp (black) **16** from the „-“ terminal of the battery.
- Detach the „+“ quick-release clamp (red) **15** from the „+“ terminal of the battery.
- Reconnect the plus pole connecting cable of the vehicle to the plus pole of the battery.
- Reconnect the minus pole connecting cable of the vehicle to the minus pole of the battery.

## ● Select charging mode


You can select different charging modes for charging different batteries at different ambient temperatures. In comparison with conventional battery charging stations, this appliance has a special function for reusing an empty battery or rechargeable battery. You can recharge an empty battery / rechargeable battery. Safe charging is ensured by means of a protection function against incorrect connection and short circuiting. Due to the installed electronics, the charging station does not begin operation directly after connecting the battery, but only starts after a charging mode has been selected.






This avoids sparking, which often occurs when connecting. The battery charger is controlled by an internal MCU (Micro-Computer Unit).

## ● Reset / deleting settings


After connection to the power supply, the appliance automatically returns to its basic setting and remains in STANDBY mode

## ● Switching between modes 1, 2, 3 and 4

- Press the MODE selection button  the appropriate number of times.

The device switches between charging modes in the following order: Standby , MODE 1 „6V“ , MODE 2 , MODE 3 , MODE 4  and then repeats the cycle





**NOTE:** If a 12V battery is connected, MODE 1 „6V“ cannot be selected. If a 6V battery is connected, MODES 2, 3 and 4 „12V“ cannot be selected.





**NOTE:** If you press the selector button , charging mode automatically switches over to the next mode and begins operation in that mode.

**NOTE:** However, if a battery is not disconnected from the charging station after a full charge, the appliance remains in trickle-charge mode, even if the user switches over to another mode. This protects the battery from being damaged.

## ● Mode 1 „6V“ (7.3V/0.8A)












This mode is suitable for charging 6V lead-acid batteries with a capacity less than 14Ah.

- Press the selection button MODE , to select mode 1. After doing so, the corresponding LED display „6V“  lights up. If you do not activate another process afterwards, the electronic system will automatically start the charging process together with the LED display  at (with a current of)  $0.8\text{ A} \pm 10\%$ . If the procedure runs without any problems, the LED display  remains on during the entire charging process, until the battery is fully charged at  $7.3\text{ V} / \pm 0.25\text{ V}$ .

When the battery is fully charged, LED display   lights up and LED display   goes out. The device now switches automatically into maintenance charging mode.










## ● Mode 2 „12V“ (14.4V/0.8A)

This mode is suitable for charging 12V lead-acid batteries with a capacity less than 14Ah.

- Press the selection button MODE , to activate mode 2. After completion of this process, the appropriate LED indicator   lights up. Then if you do not take any further action, the electronic control and the LED indicator   automatically switches on and starts the charging process. If the procedure runs without any problems, the LED display   remains on during the entire charging process, until the battery is fully charged. When the battery is fully charged, LED display   lights up and LED display   goes out. The device now switches automatically into maintenance charging mode.






## ● Mode 3 „12V“ (14.4V/3.8A)

This mode is mainly suitable for charging 12V lead-acid batteries with a capacity greater than 14Ah under normal conditions.

- Press the selection button MODE , to activate mode 3. Then if you do not take any further action, the electronic control and the LED indicator   switches on and starts the charging process. If the process runs without any problems, the LED indicator   remains on during the whole charging process until the battery is charged. When the battery is fully charged, the LED indicator   and the die LED indicator   go out. The device now switches automatically into maintenance charging mode.

## ● Mode 4 ❄ „12V“ (14.7V / 3.8A)

This mode is used for charging 12V lead-acid batteries with a capacity greater than 14Ah under cold conditions or for charging some AGM (Absorbent Glass Mat) batteries with a capacity greater than 14Ah.

- Press the MODE selection button  to select mode 4. As you select the desired mode, the appropriate LED indicator  lights up immediately. If you take no further action, the electronic control switches on after a preset delay to begin the charging process. In this mode the charging current is the same as in “mode 3”. If the process runs without any problems, the LED indicator  lights up, the electronic control switches on and remains in this state until the battery is charged. As soon as this point is reached, the battery charger switches to maintenance charging mode. Now the LED indicator  goes out and the LED indicator  lights up to indicate the present status.

## ● Regenerating / charging empty (used, overcharged) 12V batteries


The battery charger detects the battery voltage automatically once the battery charger is connected to a battery and the charging process has started. It changes to pulse charging mode if the voltage is in the range of  $7.5\text{V} \pm 0.5$  to  $10.5\text{V} \pm 0.5\text{V}$ .

This pulse charging process is continued until the battery voltage has increased to  $10.5\text{V} \pm 0.5\text{V}$ . As soon as this state is reached, the battery charger switches into the normal charging mode that you selected earlier.

Now the battery can be charged quickly and safely. Most empty batteries can be charged and used again using this procedure.

**NOTE:** The LED indicator  flashes during the pulse-charging process.


## ● Protective function of the device

As soon as a deviating situation, such as short-circuit, critical voltage drop during the charging process, open circuit or reversed connection of the output clamps, occurs, the battery charger switches the electronics off and resets the system directly into the default settings to avoid causing any damage. If you do not activate any settings, the system will remain in STANDBY mode. With the inverse connection of the output clamps the LED display „incorrect polarity / fault“  lights up additionally.

## ● Overheating protection

If the appliance becomes too hot during charging, the power output is automatically reduced. This protects the appliance from damage.

## ● Maintenance and care

-  **WARNING!** Before you carry out any work on the battery charger always pull the mains plug out of the mains socket.
- Do not under any circumstances use solvents or other aggressive cleaning agents.

The appliance is maintenance-free.

- Switch off the appliance.
- Clean the plastic surfaces of the device with a dry cloth.

## ● Service

-  **WARNING!** Have your device repaired at the service centre or by qualified specialist personnel using original manufacturer parts only. This will ensure that your device remains safe to use.
-  **WARNING!** If the plug or lead needs to be replaced, always have the replacement carried out by the manufacturer or its service centre. This will ensure that your device remains safe to use.

## ● Warranty

**The warranty for this appliance is for 3 years from the date of purchase. The appliance has been manufactured with care and meticulously examined before delivery. Please retain your receipt as proof of purchase. In the event of a warranty claim, please make contact by telephone with our Service Department. Only in this way can a post-free despatch for your goods be assured.**

The warranty covers only claims for material and manufacturing defects, but not for transport damage, for wearing parts or for damage to fragile components, e.g. buttons or batteries. This product is for private use only and is not intended for commercial use.

The warranty is void in the case of abusive and improper handling, use of force and internal tampering not carried out by our authorized service branch. Your statutory rights are not restricted in any way by this warranty.

The warranty period will not be extended by repairs made under warranty. This applies also to replaced and repaired parts. Any damage and defects extant on purchase must be reported immediately after unpacking the appliance, at the latest, two days after the purchase date. Repairs made after the expiration of the warranty period are subject to payment.

### **GB**

#### **Service Great Britain**

**Tel.: 0871 5000 720**

**(0,10 GBP/Min.)**

**e-mail: [kompernass@lidl.gb](mailto:kompernass@lidl.gb)**

**IAN 66292**

### **IE**

#### **Service Ireland**

**Tel: 1890 930 034**

**(0,08 EUR/Min. (peak)**

**0,06 EUR/Min. (off peak))**

**e-mail: [kompernass@lidl.ie](mailto:kompernass@lidl.ie)**

**IAN 66292**

## ● Disposal



The packaging is wholly composed of environmentally-friendly materials that can be disposed of at a local recycling centre.



**Do not dispose of electrical appliances in household waste.**

In accordance with European Directive 2002/96/EC on used electrical and electronic appliances and its implementation in national law, used power tools must be collected separately and recycled in an ecologically compatible manner. Please return the tool via the available collection facilities.

Information on options for disposing of electrical appliances after their useful life can be obtained from your local or city council.

### **Disposal of batteries**



As the end user you have a duty to recycle or properly dispose of all your used batteries. Batteries containing environmentally polluting substances are labelled with the adjacent symbols to indicate that they must not be disposed of with household refuse. The abbreviations for the critical heavy metals are: Cd = cadmium, Hg = mercury, Pb = lead

Take exhausted batteries to a local authority approved disposal facility or back to the retailer. By doing this you will be complying with the legal requirements and making an important contribution to protecting the environment.

● **Declaration of conformity /  
Manufacturer CE**

We, Kompernaß GmbH, the person responsible for documents: Mr Semi Uguzlu, Burgstr. 21, D-44867 Bochum, Germany, hereby declare that this product complies with the following standards, normative documents and EU directives:

**EC Low-Voltage Directive  
(2006 / 95 / EC)**

**Electromagnetic Compatibility  
(2004 / 108 / EC)**

**Product designation:**

Car battery charger ULG 3.8 A1

**Date of manufacture (DOM): 05-2011**

**Serial number: IAN 66292**

Bochum, 31.05.2011



Semi Uguzlu  
- Quality Manager -

We reserve the right to make technical modifications  
in the course of product development.

IAN 66292

**KOMPERNASS GMBH**

Burgstraße 21

D-44867 Bochum

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Last Information Update: 05 / 2011

Ident.-No.: ULG3.8A1052011-6

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