User Manual

CAR BATTERY CHARGER WITH DISPLAY

Contents

Dok./Rev.-Nr. IMA MD19161 Cover V3.0

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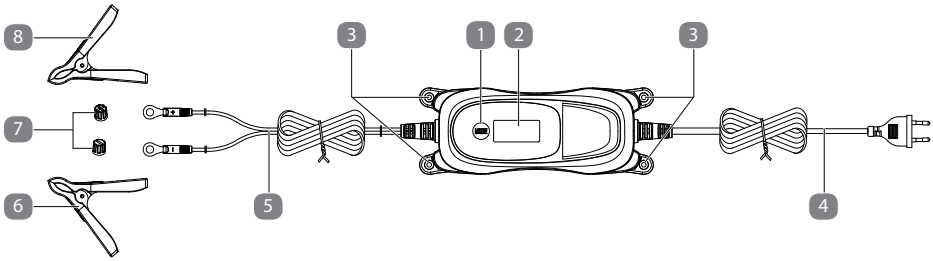

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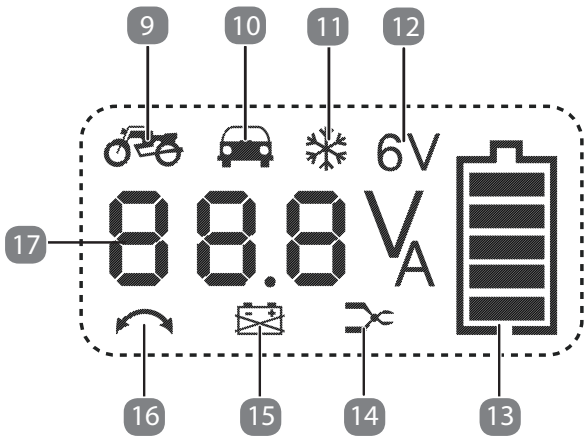

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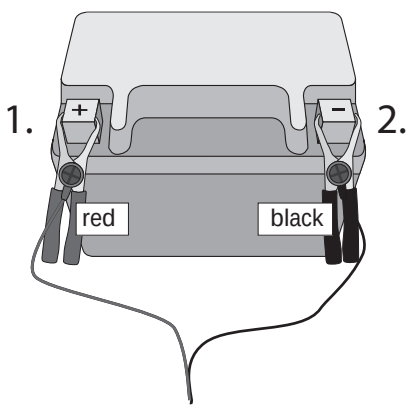


Device parts

1. **MODE** button
2. Display
3. Fixing holes
4. Power cord with plug
5. Connection lead with ring terminals
6. Negative terminal clamp (black) with connection lead
7. Fastening screws
8. Positive terminal clamp (red) with connection lead
9. + 10. **12 V / 0.8 A** charging mode active – standard charging
10. **12 V / 3.8 A** charging mode active – fast charging
11. **12 V / 3.8 A COLD** charging mode active – fast charging at low temperatures
12. **6 V / 0.8 A** charging mode active – standard charging
13. Charging display
14. Error display (No battery connected, short circuit)
15. Battery faulty
16. Error display (clamps connected incorrectly)
17. Charging current display/
current battery voltage display

Contents

About these operating instructions

Thank you for choosing our product. We hope you enjoy using it.

Read the safety instructions carefully before using the device for the first time. Note the warnings on the device and in the operating instructions.

Always keep the operating instructions close to hand. If you sell the device or give it away, please ensure that you also pass on these operating instructions. They are an essential component of the product.

Key to symbols

If a block of text is marked with one of the warning symbols listed below, the hazard described in that text must be avoided to prevent the potential consequences described there from occurring.

This keyword denotes a high-risk hazard situation which results in death or serious injury if it is not avoided.

This keyword denotes a medium-risk hazard situation which can result in death or a serious injury if it is not avoided.

This keyword denotes a low-risk hazard situation which can result in moderate or minor injuries if it is not avoided.

NOTICE!

This keyword serves as a warning for possible damage to property.

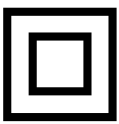
Warning – electric shock hazard!

Warning – explosive substances hazard!

Warning – chemical burns hazard!

This symbol provides useful additional information for assembling or operating the device.

Take note of the information in the operating instructions.

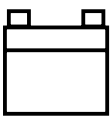


Protection class II

Protection class II electrical devices are electrical devices that have double and/or reinforced insulation throughout and do not have any connection options for a protective conductor. The housing of a protection class II electrical device encased in insulation can constitute the additional or reinforced insulation in part or completely.

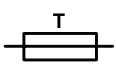
Use in indoor spaces

Appliances with this symbol are only suitable for use in indoor spaces.



Battery symbol

The information following this symbol defines the maximum and minimum nominal charge of the battery to be charged.



Fuse

Devices with this symbol are equipped with a fuse that blows when the nominal current (2 A) is exceeded and breaks the circuit.

Symbol for direct current

positive polarity

⎓ negative polarity

IP65 This device is equipped with protection class IP65 in accordance with DIN EN 60529, meaning that:

- The device is dust proof and completely protected from contact.
- The device is protected from water spray (nozzle) from all directions.

WARNING!

Risk of electric shock/short circuit

– The device together with the plug may only be used in indoor spaces.

The Australian Regulatory Compliance Mark (RCM) is a single compliance mark used by suppliers after establishing compliance with all applicable regulations, including EMC, telecoms, radiocoms, electromagnetic radiation (EMR) and electrical safety.

Proper use

This device is a charger connected on the input side. It has a trickle charging function. It is suitable for charging and trickle-charging the following rechargeable 6 V or 12 V lead-acid batteries with electrolyte solution or gel as well as AGM batteries that are used in motor vehicles:

- 6 V: capacity from 1.2 Ah to 14 Ah;
- 12 V: capacity from 1.2 Ah to 120 Ah;

In addition, you can regenerate completely discharged 12 V batteries (regeneration mode).

The device is not suitable for charging lithium batteries for vehicles, motorcycles or boats.

Use the charger only for charging the types of batteries named in this guide. Under no circumstances may other batteries be charged with this charger.

There is a risk of injury when using other types of batteries, and the charger could be damaged.

Please follow the battery manufacturer's charging recommendation.
The charger charges batteries automatically in a number of stages and can therefore recharge them to up to around 100% of their capacity.

You can also leave a battery connected to the charger if you are not using it for some time in order to keep it in a charged state.

The device is only intended for private use and not for industrial/ commercial use.

Please note that no liability will be accepted if the device is used for an improper purpose:

- Do not modify the device without our express agreement and do not use any accessories that have not been supplied or approved by us.

- Only use replacement parts or accessories that we have supplied or approved.
- Observe all the information in these operating instructions, especially the safety information. Any other use is deemed improper and might cause personal injury or damage to property.
- Do not use the device in areas where there is a risk of explosion. This includes, for example, fuel pumps, fuel storage areas or areas in which corrosive agents are processed. This device should also not be used in areas where the air is contaminated with particles (e.g. flour or sawdust).
- Do not expose the device to extreme conditions. Avoid:
  - high humidity or wet conditions,
  - extremely high or low temperatures,
  - direct sunlight,
  - naked flame.

Safety information

Risk of injury!

Risk of injury for people with reduced physical, sensory or mental capacity (for example, partially disabled people or older persons with impaired physical and mental capacity) or with a lack of experience and/or knowledge (for example, older children).

- Keep the device and its accessories out of the reach of children.

- This device can be used by children 8 years and older and by people with reduced physical, sensory or mental capacity or with a lack of experience and/or knowledge but only under proper supervision or if they have been instructed on how to use the device safely and have understood the risks involved.
- Children must not be allowed to play with the device.
- Do not allow children to clean the device or carry out user maintenance tasks on it unless they are over 8 years of age and properly supervised.
- Children under 8 years of age should not be allowed near the device and its connection lead.
- Do not store any of the packaging material used (bags, polystyrene, etc.) within the reach of children.
- Do not allow children to play with the packaging.
- Never leave the charger unattended while it is in use.

Risk of electric shock/short circuit

There is a risk of electric shock/short circuit due to live parts.

- Only connect the device to a properly installed and easily accessible power point close to the place where you have set up the device. The local mains voltage must correspond to the technical specifications for the device.
- The power point must be easily accessible so that you can unplug the device from the power quickly if necessary.
- Switch off the power point and unplug the device after each use, before cleaning and if it is not being supervised.
- Always pull on the plug, not the power cord.
- Make sure that the power cord does not come into contact with hot objects or surfaces (e.g. hotplate).
- Do not operate the device if the device or the power cord show signs of damage or the device has been dropped.

- In the event of a storm, devices connected to the power grid can be damaged. For this reason, you should always switch off the power point and pull out the plug if there is a storm.
- Before using for the first time and after each use, check the device and the power cord for damage.
- Unwind the power cord completely.
- Do not kink or pinch the power cord.
- Contact the Service Centre without delay if the device has been damaged during transport.
- Do not, under any circumstances, make any unauthorised modifications to the device or try to open a component and/or repair it yourself.
- Only have the power cord repaired by a suitably qualified workshop, or contact Customer Service in order to avoid hazards.
- Always switch off the power point and unplug the device before cleaning or servicing it.
- For a built-in battery in a vehicle, ensure that the vehicle is not being operated and is located in a sheltered, dry internal space (e.g. garage, carport, dry dock). Switch off the ignition and put the vehicle into parking position, e.g. with the parking brake applied (car).

The device must not be immersed in water or other liquids or held under running water because this can result in an electric shock.

- Switch off the device at the power point and pull out the plug:
  - if you are cleaning the device
  - if the device has become damp or wet
  - if it is not being supervised
  - if you are no longer using the device.
- Avoid contact with water or other liquids. Keep the device, the power cord and the plug away from basins, sinks or similar.
- Do not place any objects filled with liquid, e.g. vases or drinks, on or near the device.
- Never touch the device or the power cord with wet hands.
- Only use the device indoors. Never operate the device outside.

Setting up the device

- Place the device on a stable, level and well-ventilated surface.
- Do not place the device on the edge of a table because it could tip over and fall.
- Make sure that the power cord does not become a tripping hazard and do not use an extension cord.
- Only use the device at ambient temperatures of 0°C–40°C.
- The device must not be exposed to strong, direct sunlight for prolonged periods.
- Do not expose the charger to the effects of prolonged temperatures over 40°C. At high temperatures, the power output of the charger reduces automatically.
- Do not cover the charger because it may otherwise heat up and this can cause damage.

Charging

WARNING!

Explosion hazard!

Improper handling of the charger can lead to sparking and can trigger an explosion.

Gaseous hydrogen can escape from the battery during the charging and discharging process. Contact with open flame will cause a highly explosive oxyhydrogen reaction.

- Please follow the manufacturer's charging recommendations.
- Take note of the charging specifications of the battery.
- Only use types of batteries suited to the charger.
- Always ensure adequate ventilation.
- Carry out charging and discharging in a weatherproof space with good ventilation.
- In addition, ensure that there is no naked flame present during charging and discharging (flame, embers or sparks).
- Do not smoke in the immediate vicinity of the charger.
- Do not store any explosive or flammable substances, e.g. petrol or solvents, nearby that could ignite while using the charger.
- Make sure when using cords and electrical devices that no sparking or electrostatic discharge occurs.

- Avoid creating sparks when connecting and removing the charger:
  - Avoid an electrical short-circuit when connecting the charger to the battery. Only connect the negative terminal connection lead (black) to the negative terminal of the battery. Only connect the positive terminal connection lead (red) to the positive terminal of the battery.
  - Connect the power cord away from the battery and the petrol line.
  - After charging, disconnect the device from the mains power supply first. Do not remove the connection clamps from the battery until you have done so.

Handling rechargeable batteries

Chemical burns hazard!
Battery acid is highly corrosive.

- Use acid-proof safety gloves, clothing and eye protection.
- Do not turn batteries over because acid can leak out of the degassing vents.
- If a cell is leaking, the fluid must not come into contact with skin or eyes.
  If you nevertheless come into contact with the fluid, the area affected must be rinsed with plenty of water. Immediately seek medical attention.

- Remove leaked battery fluid with a dry, absorbent cloth, avoiding contact with your skin, for example, by using acid-proof safety gloves.

General information

- Do not use the charger for charging and discharging non-rechargeable batteries.
- Do not use frozen rechargeable batteries!
- Do not use damaged or corroded rechargeable batteries.
- Never take rechargeable cells or batteries apart, open them or crush them.
- Never expose cells or batteries to strong heat or flame. Avoid storing them in direct sunlight.
- Never short-circuit cells or batteries.
- Always pay attention to the positive (+) and negative (-) signs on cells, batteries and devices. Ensure proper use.
- Store cells and batteries out of the reach of children.
- Only use the charger for 6 V or 12 V lead-acid rechargeable batteries with electrolyte solution or gel or AGM batteries.
- Do not under any circumstances charge lithium batteries.
- Store the technical documentation for the batteries to be charged together with these operating instructions for future reference.

Scope of delivery

DANGER!

Choking and suffocation hazard

Risk of choking and suffocation through swallowing or inhaling small parts or plastic wrap.

- Keep the plastic packaging away from children.
- Do not allow children to play with the packaging material.

- Take the product out of the packaging and dispose of all the packaging material.
- Please check your purchase to ensure that all items are included. If anything is missing, please contact our Service Centre within 14 days of purchase.
- The motor vehicle battery charger must be checked for damage before each use.
- If damage is present, please contact our Service Centre.

The following items are supplied with your product:

- motor vehicle battery charger
- operating instructions including guarantee documents

Wall mounting

The device has fixing holes so that you can mount it on the wall.

WARNING!

Electric shock hazard!

There is a risk of electric shock due to live parts in the device.

- Always switch off the power point and pull out the plug 4 before carrying out assembly and maintenance work or cleaning the device.

There is a risk of electric shock from live wires.

- Do not drill into concealed areas in which electrical wires or gas or water pipes may be located. Use the appropriate locating devices to detect wires and pipes.
  - Choose a suitable place on the wall. Ensure adequate ventilation.
  - Select four wall plugs and screws suitable for the size of the fastening holes 3.
  - Mark the location of the holes on the wall.
  - Drill four holes and insert the wall plugs.
  - Screw the device in place firmly.

Operation

– Take the product out of the packaging and dispose of all the packaging material as well as the protective display film.

Connect the charger to the battery

The charger detects the type of 6 V or 12 V battery automatically.

WARNING!

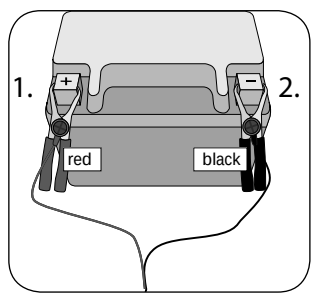
Electric shock hazard!

There is a risk of electric shock due to live parts in the device.

– Always switch off the power point and pull out the plug 4 before you attach or remove the connection clamps on the battery.

Before you disconnect a motor vehicle or motorcycle battery, first consult the vehicle operating instructions to inform yourself about the possible consequences of disconnecting the battery.

– If the battery that you wish to charge is connected to the vehicle, first disconnect the vehicle's negative terminal connection lead (black) from the negative terminal of the battery before charging or discharging. The negative terminal of the battery is generally attached to the vehicle's body.
– Then disconnect the vehicle's positive terminal connection lead (red) from the positive terminal of the battery.
– Then connect the positive terminal clamp (red) 8 of the charger to the positive terminal of the battery and after that the negative terminal clamp (black) 6 to the battery's negative terminal away from the battery and the fuel line.
– Connect the power cord 4 of the battery charger to a mains power point.



You can unscrew the clamps from the battery charger in order to connect it securely to the battery using the ring cable lugs, for example, for trickle charging in winter.

Select charging mode

Select a charging mode depending on the type of battery and ambient temperature. You can also recharge a completely discharged (deeply discharged) battery (Page 25).

After connecting the battery, the electronics in the charger start the charging process in 6 V or 12 V standard charging mode – depending on the type of battery.

- To select a charging mode, press the **MODE** 1 button several times. The symbol for the particular mode and the charging current are shown on the display 2.
- The charger identifies the 6 V or 12 V standard charging mode suited to the type of battery. For this reason, not every mode can be selected for every battery.
- After a mode has been selected, the charger runs it. The display will show the current battery voltage. If a battery remains connected to the charger after complete charging, the charger automatically switches to trickle charging. The battery is still charged by trickle charging even if another mode is selected.

Status display

- When the device is switched on, the background lights up blue.
- During the charging process, the selected charging mode, the current battery voltage and the charging level of the battery are displayed.
- If there is a malfunction (e.g. due to short circuit), error symbols are displayed and the device switches to standby mode (see also “Reverse polarity protection” on page 27.).

LED	mode
6V	Standard charging mode **6 V / 0.8 A**: Charging process for 6 V battery Rec. rechargeable battery capacity 1.2–14 Ah, 0.8 A charging current
 	Standard charging mode **12 V / 0.8 A**: Charging process for 12 V motorcycle battery or 12 V car battery Rec. rechargeable battery capacity 1.2–120 Ah, 0.8 A charging current
	Fast charging mode **12 V / 3.8 A**: Fast charging mode 12 V car battery Rec. rechargeable battery capacity 1.2–120 Ah, 3.8 A charging current
	Fast charging mode **12 V / 3.8 A COLD**: Fast charging mode for low ambient temperature, only for suitable 12 V battery Rec. rechargeable battery capacity 1.2–120 Ah, 3.8 A charging current

LED	mode
	Battery level: Outline flashes, 1–5 bars are displayed: Charging active
	Battery level: 5 bars displayed, outline displayed continuously: The battery is fully charged. Trickle charging when battery fully charged.
	Error: battery faulty
	Error: connection clamps connected incorrectly
	Error: no battery connected, short circuit

Display	Battery	Charging current	End-of-charge voltage	Suitable for battery type
 	12 V DC motorcycle & 12 V DC car	0.8 A	14.8 V	1.2 Ah – 120 Ah Lead acid; lead; AGM, GEL; EFB
	12 V DC car	3.8 A	15.1 V	1.2 Ah – 120 Ah Lead; AGM, GEL; EFB
	12 V DC car	3.8 A	15.5 V	1.2 Ah – 120 Ah AGM, GEL
6V	6 V DC motorcycle & boat	0.8 A	7.6 V	1.2 Ah – 14 Ah Lead, AGM; GEL; EFB
			Note: **Follow battery manufacturer's charging recommendation.**	**Charging of lithium batteries prohibited!**

Charging mode 6 V / 0.8 A (batteries 6 V to max. 14 Ah)

The rating plate on your battery will tell you what type it is. Follow the battery manufacturer's charging recommendation.

Normally, the charger identifies the 6 V standard charging mode suited to the type of battery. If the battery is not recognised, proceed as follows:

- Set this mode to charge 6 V batteries with a capacity less than 14 Ah.
- Press the **MODE** button 1 several times to select **6 V / 0.8 A**.

The 6V 12 symbol appears on the display 2.

If you do not subsequently set a different mode, the electronics will automatically start the charging process at a charging current of approx. 0.8 A.

When the battery is completely charged, the outline around the battery symbol 13 stops flashing and the entire battery lights up continuously. Trickle charging takes place in this state.

Charging mode 12 V / 0.8 A (batteries 12 V to max. 120 Ah)

The rating plate on your battery will tell you what type it is. Follow the battery manufacturer's charging recommendation.

Normally, the charger identifies the 12 V standard charging mode suited to the type of battery. If the battery is not recognised, proceed as follows:

- Set this mode to charge batteries with a capacity less than 120 Ah.
- Press the **MODE** button 1 several times to select 12 V / 0.8 A.

The  9 and  10 symbols appear on the display 2.

If you do not subsequently set a different mode, the electronics will automatically start the charging process at a charging current of approx. 0.8 A.

When the battery is completely charged, the outline around the battery symbol 13 stops flashing and the entire battery lights up continuously. Trickle charging takes place in this state.

12 V / 3.8 A charging mode (fast charging for 12 V batteries from 1.2 Ah to 120 Ah)

The rating plate on your battery will tell you what type it is. Follow the battery manufacturer's charging recommendation.

Proceed as follows:

- Set this mode to charge batteries with a capacity of 1.2 Ah and above and normal ambient temperatures.
- Press the **MODE** button 1 several times to select 12 V / 3.8 A.

The  10 symbol appears on the display 2.

If you do not subsequently set a different mode, the electronics will automatically start the charging process at a charging current of approx. 3.8 A.

When the battery is completely charged, the outline around the battery symbol 13 stops flashing and the entire battery lights up continuously. Trickle charging takes place in this state.

12 V / 3.8 A Cold (fast charging for 12 V batteries, from 1.2 Ah to 120 Ah, at cold temperatures)

The rating plate on your battery will tell you what type it is. Follow the battery manufacturer's charging recommendation.

Proceed as follows:

- Set this mode to charge batteries with a capacity of 1.2 Ah and low ambient temperatures. Also set this mode to charge suitable gel and AGM batteries (Absorbent Glass Mat: batteries with electrolyte contained in fibreglass) with a capacity of 1.2 Ah and above.
- Press the **MODE** button 1 several times to select the **12 V / 3.8 A COLD** mode.

The  11 symbol appears on the display.

If you do not subsequently set a different mode, the electronics will automatically start the charging process at a charging current of approx. 3.8 A.

When the battery is completely charged, the outline around the battery symbol 13 stops flashing and the entire battery lights up continuously. Trickle charging takes place in this state.

Regenerate / charge deeply discharged 12 V batteries (regeneration mode)

– Connect the deeply discharged (completely flat) battery to the charger and start a charging process.

In this regeneration mode, the battery is charged until the charger measures a terminal voltage that is high enough for a regular charging process. The device then switches automatically to a suitable charging mode and continues charging normally.

Description of the charging cycle

Charging mode	Charging stage	Battery voltage
6 V / 0.8 A	Completely charged	At a battery voltage of 3.7 to 7.6 V, charging takes place at a charging current of 0.8 A.
	Switch to trickle charging	At a battery voltage ≥ 6.4 V, the battery is maintained in a completely charged state with a trickle charging current of 50–150 mA (0.05–0.15 A).
	Continuation of charging process	At a battery voltage of < 6.4 V, charging is continued with a charging current of 0.8 A.
12 V / 0.8 A	Completely charged	At a battery voltage of 7.5 to 14.8 V, charging takes place with a charging current of 0.8 A.
	Switch to trickle charging	At a battery voltage ≥ 12.8 V, the battery is maintained in a completely charged state with a trickle charging current of 50–150 mA (0.05–0.15 A).
	Continuation of charging process	At a battery voltage of < 12.8 V, charging is continued with a charging current of 0.8 A.
12 V / 3.8 A	Pulse charging (reactivation of the battery)	At a battery voltage of 7.5 V to 10.5 V, charging takes place with a pulse charging current of 0.8 A.
	Continuous charging	At a battery voltage of 10.5 V to 14.1 V, charging is continued with a charging current of 3.8 A.

Charging mode	Charging stage	Battery voltage
12 V / 3.8 A	Continuous charging	At a battery voltage of 14.1 V to 14.8 V, charging is continued with a charging current of 3.0 A.
		At a battery voltage of 14.8 V to 15.1 V, charging is continued with a charging current of 0.8 A.
	Switch to trickle charging	At a battery voltage ≥ 12.8 V, the battery is maintained in a completely charged state with a trickle charging current of 50–150 mA (0.05–0.15 A).
	Continuation of charging process	At a battery voltage of < 12.8 V, charging is continued with a charging current of 0.8 A.
Reactivation for 12 V batteries	Pulse charging for reactivation	When battery voltage of 7.5 V to 10.5 V is measured for 90 seconds, charging is carried out with a pulse charging current of 0.8 A.
	Continuous charging	With a battery voltage of < 10.5 V, charging is continued with a charging current of 3.8 A.
12 V / 3.8 A COLD	pulse charging (reactivation of the battery)	At a battery voltage of 7.5 to 10.5 V, charging takes place with a pulse charging current of 0.8 A.
	Continuous charging	At a battery voltage of 10.5 V to 14.1 V, charging is continued with a charging current of 3.8 A.
12 V / 3.8 A COLD	Continuous charging	At a battery voltage of 14.1 V to 14.8 V, charging is continued with a charging current of 3.0 A.
		At a battery voltage of 14.8 V to 15.5 V, charging is continued with a charging current of 0.8 A.
	Switch to trickle charging	At a battery voltage ≥ 12.8 V, the battery is maintained in a completely charged state with a trickle charging current of 50–150 mA (0.05–0.15 A).

Charging mode	Charging stage	Battery voltage
	Continuation of charging process	At a battery voltage of < 12.8 V, charging is continued with a charging current of 0.8 A.

Reverse polarity protection

The device is protected against being set up incorrectly. If it is connected incorrectly or the battery voltage falls below 7.5 V for 12 V batteries and below 3.7 V for 6 V batteries, the device remains in standby mode.

- If the clamps are connected with the poles reversed (connected incorrectly), 16 appears on the display.
- If the clamps are not connected correctly and the circuit is not closed, 14 appears on the display.
- If the battery itself is faulty, 15 lights up on the display.

You cannot operate the device.

Overheating protection

If the device temperature reaches more than 115°C, the overheating protection is triggered and charging is paused until the device has cooled down. The display will continue to show the battery level.

Disconnecting the battery

WARNING!

Explosion hazard!

Improper handling of the charger can lead to sparking and can trigger an explosion.

Gaseous hydrogen can escape from the battery during the charging and discharging process. Contact with open flame will cause a highly explosive oxyhydrogen reaction.

– Disconnect the device from mains power before you disconnect the connection clamps from the battery.
– Ensure that you disconnect the battery clamps in the correct order.

Disconnect the battery from the charger in the following order:

- After charging, disconnect the device from mains power.
- Remove the negative terminal connection lead (black) from the negative terminal of the battery.
- Remove the positive terminal connection lead (red) from the positive terminal of the battery.
- Reconnect the positive terminal connection lead of the vehicle to the positive terminal of the battery.
- Reconnect the negative terminal connection lead of the vehicle to the negative terminal of the battery.

Switching off

- Switch off the charger by switching off the power point and pulling out the plug.

Cleaning and care

Electric shock hazard!

There is a risk of electric shock due to live parts in the device.

- Always switch off the power point and pull out the plug before carrying out assembly and maintenance work or cleaning the device.
- Before cleaning, switch off the power point 4 and pull out the mains plug. Use a soft, dry cloth for cleaning. Avoid using any chemical solvents and cleaning products because they can damage the surface and/or the labels on the device.
- After use for an extended period, also clean the connection clamps 6 / 8 with a dry cloth in order to maintain optimum contact with the terminals.

Storage/transport

- If you are not using the device, switch off the power point and unplug 4 the device. Store it in a dry, dust-free location at temperatures between –20°C and 60°C out of direct sunlight.
- Make sure that the device is kept out of the reach of children.
- To avoid damage during transport, we recommend using the original packaging.

Disposal

PACKAGING

The device has been packaged to protect it from damage during transport. The packaging is made of materials that can be recycled in an environmentally friendly manner.

DEVICE

All old devices labelled with the adjacent symbol must not be disposed of in normal household rubbish.

According to Directive 2012/19/EU, the device must be disposed of properly at the end of its useful life.

This involves sending potentially reusable materials for recycling and minimising environmental impact.

Take the old device to a collection point for e-waste or a recycling centre.

Please contact your local council or waste disposal company for further information.

BATTERIES/RECHARGEABLE BATTERIES

Old batteries/rechargeable batteries do not belong in the household rubbish. Batteries/rechargeable batteries must be disposed of properly. There are appropriate bins available for disposing of them at your battery retailer or municipal collection points. Your local council or waste disposal company can provide you with more information.

In connection with the sale of batteries/rechargeable batteries or with the supply of devices that contain batteries/rechargeable batteries, we have a duty to alert you to the following:

As a consumer, you are legally obliged to return used batteries/rechargeable batteries.

The symbol with the crossed-out rubbish bin means that the battery/rechargeable battery must not be placed in household rubbish.

Technical specifications

Model	MD 19161
Input	220–240 V ~ 50 Hz; 0.6 A
Power on standby	< 0.8 W
Elec. protection class	II
Voltage tolerance	± 0.3 V
Current tolerance	± 10% (± 15% for 0.8 A)
Trickle charging current	50–150 mA
Charging cut-off voltage	approx. 7.6 V (charging mode **6 V / 0.8 A**) approx. 14.8 V (charging mode **12 V / 0.8 A**) approx. 15.1 V (charging mode **12 V / 3.8 A**) approx. 15.5 V (charging mode **12 V / 3.8 A Cold**)
Output for batteries with rated voltages	6 V or 12 V
Charging current	approx. 0.8 A / 3.8 A (12 V batteries) approx. 0.8 A (6 V batteries)
Suitable for battery type	12 V: 1.2 Ah – 120 Ah 6 V: 1.2 Ah – 14 Ah
Protection category	IP65
Cable length (power cord with plug)	1.80 m
Lead length (charging lead with battery clamps)	1.90 m
Operating temperature	0°C to 40°C
Storage temperature	–20°C to 60°C

Declaration of Conformity

MEDION AG herby declares that the product MD 19161 conform to all relevant Australian requirements.

Service information

Please contact our Customer Service team if your device ever stops working the way you want or expect it to. There are several ways for you to contact us:

- In our Service Community, you can meet other users, as well as our staff, and you can exchange your experiences and pass on your knowledge there. You will find our Service Community at http://community.medion.com.
- Alternatively, use our contact form at www.medion.com/contact.
- You can also contact our Service team via our hotline or by post.

Opening times	Hotline number
Mon – Fri: 08:30AM to 06:00PM EST	1300 884 987
Service address	
MEDION Australia Pty Ltd. **Chatswood, NSW 2067** **Australia**	

You can download this and many other sets of operating instructions from our service portal at www.medion.com/au/contact.php.

You will also find drivers and other software for a wide range of devices there.

You can also scan the QR code on the side of the screen, to download the operating instructions onto your mobile device from the service portal.

Privacy statement

Dear customer,

We wish to inform you that we, MEDION AG, Am Zehnthof 77, 45307 Essen, Germany process your personal data as a data controller.

For matters regarding data protection, we are supported by our company data protection officer who can be contacted at MEDION AG, Datenschutz, Am Zehnthof 77, D – 45307 Essen; datenschutz@medion.com. We process your data for the purpose of warranty processing and associated processes (e.g. repairs) and therefore rely on processing your data for the sales contract concluded with us.

Your data will be provided to repairers contracted to us for the purpose of warranty processing and associated processes. We generally store your personal data for a period of three years in order to fulfil your legal warranty rights.

You have the right to be informed of the personal data concerned as well as the right to rectification, deletion, restriction of processing, the right to object to processing, as well as the right to data portability.

In case of access and cancellation rights, restrictions apply according to S 34 and S 35 of BDSG (Federal Data Protection Act) (Art. 23 GDPR). In addition, there is a right of appeal to a competent data protection supervisory authority (Article 77 GDPR in conjunction with S 19 BDSG). The state official for data protection and freedom of information for MEDION AG is Nordrhein Westfalen, P box 200444, 40212 Düsseldorf, Germany. www.ldi.nrw.de.

The processing of your data is necessary for warranty processing: it is not possible to process the warranty without the provision of the required data.

Legal Notice

Date: 08.07.2019

Version: V2.5

MEDION AG

Am Zehnthof 77

45307 Essen

Germany

Please note that you cannot use the address above for returns. Please always contact our Customer Service team first.

CAR BATTERY CHARGER WITH DISPLAY

Warranty Details

REGISTER YOUR PURCHASE AT www.aldi.com.au/en/about-aldi/product-registration/
TO KEEP UP-TO-DATE WITH IMPORTANT PRODUCT INFORMATION

The product is guaranteed to be free from defects in workmanship and parts for a period of 36 months from the date of purchase. Defects that occur within this warranty period, under normal use and care, will be repaired, replaced or refunded at our discretion. The benefits conferred by this warranty are in addition to all rights and remedies in respect of the product that the consumer has under the Competition and Consumer Act 2010 and similar state and territory laws.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

3 YEARS WARRANTY

AFTER SALES SUPPORT
☎ (AU) 1300 884 987

www.medion.com.au

CAR BATTERY CHARGER WITH DISPLAY

Repair and Refurbished Goods or Parts Notice

REGISTER YOUR PURCHASE AT www.aldi.com.au/en/about-aldi/product-registration/
TO KEEP UP-TO-DATE WITH IMPORTANT PRODUCT INFORMATION

Unfortunately, from time to time, faulty products are manufactured which need to be returned to the Supplier for repair.

Please be aware that if your product is capable of retaining user-generated data (such as files stored on a computer hard drive, telephone numbers stored on a mobile telephone, songs stored on a portable media player, games saved on a games console or files stored on a USB memory stick) during the process of repair, some or all of your stored data may be lost.

We recommend you save this data elsewhere prior to sending the product for repair.

You should also be aware that rather than repairing goods, we may replace them with refurbished goods of the same type of use refurbished parts in the repair process.

Please be assured though, refurbished parts or replacements are only used where they meet ALDI's stringent quality specifications.

If at any time you feel your repair is being handled unsatisfactorily, you may escalate your complaint. Please telephone us on 1300 884 987 or write to us at:

MEDION Australia Pty Ltd
Chatswood, NSW 2067; Australia
Hotline: 1300 884 987
(Opening hours: Mon - Fri 08:30AM to 06:00PM EST)
Internet www.medion.com.au;
E-mail Support australia@medion.com

3 YEARS WARRANTY

AFTER SALES SUPPORT
☎ (AU) 1300 884 987 www.medion.com.au

ALDI guarantees that our exclusive brand products are developed to our stringent quality specifications. If you are not entirely satisfied with this product, please return it to the nearest ALDI store within 60 days from the date of purchase, for a full refund or replacement, or take advantage of our after sales support by calling the supplier's Customer Service Hotline.

AU

Made in China

AUTO XS is a registered trademark of ALDI Stores

DISTRIBUTED BY:

ALDI STORES
1 SARGENTS ROAD
MINCHINBURY NSW 2770
www.aldi.com.au

VERSION: V2.4

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MODEL:
MD 19161

10/2019

3 YEARS WARRANTY