

Powertran® M 8521A Battery Charger + Maintainer 6V/12V 600mA

Altronic Distributors warrants this product for one year from date of purchase from Altronics or its resellers to the consumer. If this item is part of an installation or another product, please contact the installer or supplier for your warranty.

During the warranty period, we undertake to repair or replace your product at no charge if found to be defective due to a manufacturing fault. The warranty excludes damage by misuse or incorrect installation (i.e. failure to install and operate device according to specifications in the supplied instruction manual), neglect, shipping accident, or no fault found, nor by use in a way or manner not intended by the supplier. For speakers, misuse includes burnt out voice coils.

For repair or service please contact your PLACE OF PURCHASE.

If this item was purchased directly from Altronics please make a warranty claim by:

1. FOR MAIL ORDER CUSTOMERS (includes school and trade orders),

- a) Ringing us on 1300 797 007 and quoting your tax invoice number.
- b) Upon contacting Altronics, we will issue an R.A. (Return Authorisation). As Altronics have a number of service agents throughout Australia, a copy of the R.A. will be emailed, faxed or mailed to you with full instructions of how and where to send the goods. The freight for shipping goods back to Altronics for all repairs is at the customer's expense.
- c) A copy of the R.A. form, (or at the very minimum, the R.A. number) must accompany the goods to effect the repair.
- d) Altronics will pay the return freight to the customer where the warranty claim has been accepted.
- e) Please quote the R.A. number in any correspondence to us.

2. FOR OVER THE COUNTER PURCHASES; to make a warranty claim, please return the goods to us in any of our stores, with a copy of your proof of purchase (tax invoice).

- a) Upon leaving the goods at one of our stores, an R.A. number will be issued to you.
 - b) Once repaired, you will be contacted, advising that the goods are ready to be collected from the store.
- It is at Altronics discretion as to whether the goods will be repaired or replaced (whilst under warranty); and as to whether identical goods will be used to replace the item due to changes of models / products.

Note: Under no circumstances should you attempt to repair the device yourself or via a non-authorized Altronics service centre, as this will invalidate the warranty!

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.

Distributed by Altronic Distributors Pty. Ltd.
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Battery Charger + Maintainer 6V/12V 600mA

Operating Instructions



Features

- Suitable for all 6V and 12V lead batteries
- Suits battery recharging or maintenance (may be permanently connected)
- Clear LED display
- Protection against short circuit
- Ideal for battery storage during winter
- Light-weight
- Eyelet Terminals
- Crocodile Clips

Applications

Cars, Boats, Motorcycles, Tractors, Jet Ski's and Remote Controlled Cars

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Overview

The product is designed to charge and maintain 6 or 12V lead-acid batteries. The charger has been optimised to maintain the battery of your motorcycle or car when it is not being used over longer periods of time, for example over the winter. The charger is designed to charge and maintain Gel, AGM, and standard lead-acid batteries. It features both eyelet terminal connection and crocodile clips making connecting to battery terminals easy. Note that whilst this product is designed to charge and maintain batteries, for high capacity batteries (>20Ah) it may take considerable time to charge the cell. As such it is best used for battery charge maintenance when used with high capacity batteries.

WARNING: Any use other than that described above will damage this product and involves the risk of short circuits, fire, electric shock, etc.

Package Contents

- Battery charger
- Operating instructions
- Cable with battery clamps
- Cable with o-ring connectors

Operation

- Operation under adverse ambient conditions must be avoided under all circumstances. Adverse ambient conditions include: ambient temperatures above 40°C, flammable gases, solvents, vapours, dust, and relative humidity above 80%.
- Do not use the battery charger inside a vehicle. The battery charger must not be used in the vicinity of flammable substances or gases.
- Ensure that there is sufficient ventilation during operation. Never cover the battery charger or the connected battery.
- Never charge lead-acid batteries in containers or poorly ventilated rooms. Explosive gases can be generated during the charging process!
- Keep the battery charger as well as the battery away from ignition sources. Do not smoke while handling the battery charger or the battery! There is danger of explosion!
- Never operate the device immediately after it has been taken from a cold to a warm room. The condensation generated can cause malfunctions and there is also the risk of a deadly electric shock!



Specifications

Operating voltage:	100-240V 50/60Hz
Charge end voltage:	6.9V or 13.7V (+/- 2%)
Charging current:	Max. 0.6A
Rechargeable battery type:	Any 6V or 12V lead-acid batteries (SLA batteries, AGM / gel)
Battery charge & maintenance capacity:	>1.2Ah



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Operation Modes

Switch 1: 6V mode (6.9V +/- 2%)

- This mode is intended especially for 6V batteries.
- Having selected the mode, the charging process starts automatically (0.6A +/- 10%), LED 4  is lit when the charging is in progress.
- When the battery is fully charged (6.9V +/- 2%), LED 4  light off. The device continues maintenance charging.

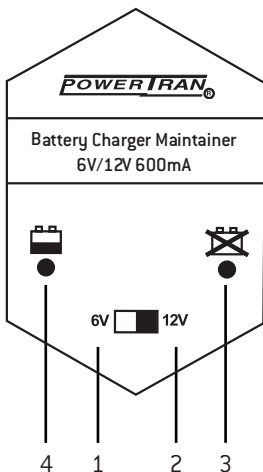
Switch 2: 12V mode (13.7V +/- 2%)



- This mode is intended especially for 12V batteries.
- Having selected the mode, the charging process starts automatically (0.6A +/- 10%), LED 4  is lit when the charging is in progress.
- When the battery is fully charged (13.7V +/- 2%), LED 4  light off. The device continues maintenance charging.

Regeneration function:

- This function is designed to regenerate deep-discharged batteries. It cannot be directly selected, but commences automatically if needed. If a deep discharged rechargeable battery is connected to the charger, the regeneration mode is the first mode to start. Low charging currents are used to try and bring the deep discharged rechargeable battery to a normal battery voltage again. When the battery reaches a normal voltage, the charger will continue charging using the regular process. Even with a very low battery voltage of 1.5 V the device starts charging. Therefore, deep-discharged batteries can be charged as well.

Description of LEDS/Functions



1	6V	Switch 1 - 6V mode • up to 6.9V, suitable for charging 6V cells.
2	12V	Switch 2 - 12V mode • up to 13.7 V, suitable for charging 12V cells.
3		LED 3 - WARNING • Lit when the cables connected with reverse polarity Lit when the cables connected with reverse polarity
4		LED 4 - • Lit – Charging in progress • Off – Fully charged

Charging a Lead-acid Battery

1. First make sure your lead-acid battery is a 6V or 12V. Do not charge batteries with different operating voltages!

2. Disconnect all loads from the battery.

If the battery is installed in a vehicle, turn off the ignition and any other loads.

Observe the instructions and safety information of the vehicle to find out how the vehicle battery should be charged. Modern vehicles are equipped with sensitive electronic parts and controls that can be damaged if you do not proceed properly!

3. Connect the battery charger to the power supply (100-240 V $\overline{\text{A}}$ /50/60 Hz).

4. Now you can select a function using the switch button. See the next chapter for a description of the individual operating modes

5. Then, connect the red battery clamp (+) to the positive (+) battery pole. Connect the black battery clamp (-) to the vehicle chassis or the negative (-) battery pole.

6. If the polarity is not correct, LED 3  will be lit as a warning.

7. After the charging process, disconnect the battery charger from the mains supply.

8. First remove the clamp from the vehicle chassis or negative terminal and then from the positive terminal.

Notes on rechargeable batteries

- Make sure you observe all safety instructions and charging instructions of the battery manufacturer.
- Before connecting the battery to the battery charger, disconnect the battery from any loads or cables (turn off the loads first!).
- Always disconnect the ground connection from the battery before disconnecting the positive terminal.
- Disconnect the battery from the battery charger before connecting any loads to the battery.
- When connecting or disconnecting the battery, sparks might be produced. Therefore, make sure there is sufficient ventilation!
- Observe the polarity when connecting the battery to the battery charger (red charger terminal = positive/+, black charger terminal = negative/-).
- Lead-acid batteries contain aggressive and corrosive acids. Avoid skin or eye contact with battery fluids! Never dismantle lead-acid batteries! On skin contact, clean the affected areas thoroughly with water and soap. On eye contact, rinse the effected eye immediately with clear and cold running water! Then consult a doctor immediately!
- Batteries must not be short-circuited or thrown into fire. Risk of fire and explosion!

CAUTION

- The unauthorized conversion and/or modification of the product is not permitted
- The battery charger may only be operated with a supply voltage of 100-240V 50/60 Hz.
- The product is not a toy. It is not suitable for children. Pay particular attention when children are present!
- The product may only be set up, used or stored in places that are not accessible to children.
- This product is only suitable for charging 6 and 12V lead-acid batteries. Never use it to charge different rechargeable batteries (e.g. NiCd, NiMH, LiPo) or even normal batteries. There is a risk of fire and explosion!
- Maintenance, adjustments and repair work may only be carried out by an authorised workshop. Only use original spare parts to repair the device. Using other spare parts can lead to significant material damage or personal injury!
- Do not leave packaging material lying around carelessly. It is a potential hazard children!
- If you notice any damage, do not use the battery charger anymore.

Disposal

At the end of its useful life, this product must not be disposed of together with normal household waste, but has to be dropped off at a collection centre for the recycling of electrical and electronic devices. This is indicated by the symbol on the product, on the instruction manual, or on the packaging. The materials of which this product is made are recyclable pursuant to their labelling. With the reuse, the recycling of the materials or other forms of scrap usage you are making an important contribution to the protection of the environment. Please ask your local administration office for the appropriate disposal centre.

Cleaning

Disconnect the battery charger from the battery and the mains voltage before cleaning it. Clean the outside of the product with a clean, dry, and soft cloth. Do not use aggressive cleaning agents to avoid discolouration.

SAFETY INSTRUCTIONS

Please read through the operating instructions completely before operating the device. They contain important information for correct operation. The warranty/guarantee will be void if damage is incurred resulting from non-compliance with these operating instructions! We assume no liability for any consequential damage! We do not assume any liability for damage to property or personal injury caused by improper use or the failure to observe the safety instructions!