SEALEY POWER PRODUCTS

INSTRUCTIONS FOR:

BATTERY CHARGERS
Models: AUTOCHARGE6 & AUTOCHARGE12

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

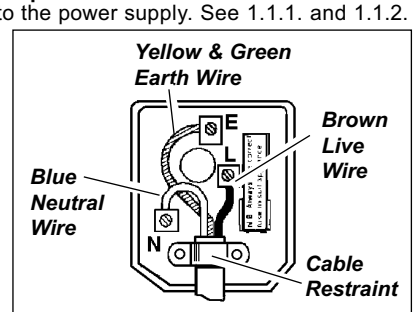
⚠ ***IMPORTANT:*** **PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.**

1. SAFETY INSTRUCTIONS

1.1. ELECTRICAL SAFETY

❒ **WARNING!** It is the responsibility of the owner and the operator to read, understand and comply with the following:
You must check all electrical products, before use, to ensure that they are safe. You must inspect power cables, plugs, sockets and any other connectors for wear or damage. You must ensure that the risk of electric shock is minimised by the installation of appropriate safety devices. A Residual Current Circuit Breaker (RCCB) should be incorporated in the main distribution board. We also recommend that a Residual Current Device (RCD) is used. It is particularly important to use an RCD with portable products that are plugged into a supply which is not protected by an RCCB. If in any doubt consult a qualified electrician. You may obtain a Residual Current Device by contacting your Sealey dealer. **You must** also read and understand the following instructions concerning electrical safety.

1.1.1. The **Electricity at Work Act 1989** requires all portable electrical appliances, if used on business premises, to be tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.
1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of the appliance operators. **If in any doubt about electrical safety, contact a qualified electrician.**
1.1.3. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply. See 1.1.1. and 1.1.2. and use a Portable Appliance Tester.
1.1.4. Ensure that cables are always protected against short circuit and overload.
1.1.5. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that none is loose.
1.1.6. **Important:** Ensure that the voltage marked on the appliance matches the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating at right.
1.1.7. **DO NOT** pull or carry the appliance by the power cable.
1.1.8. **DO NOT** pull the plug from the socket by the cable.
1.1.9. **DO NOT** use worn or damaged cables, plugs or connectors. Immediately have any faulty item repaired or replaced by a qualified electrician. When an ASTA/BS approved UK 3 pin plug is damaged, cut the cable just above the plug and **dispose of the plug safely.** Fit a new plug according to the following instructions (UK only).
a) Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.
b) Connect the BROWN live wire to the live terminal 'L'.
c) Connect the BLUE neutral wire to the neutral terminal 'N'.
d) After wiring, check that there are no bare wires, that all wires have been correctly connected, that the cable outer insulation extends beyond the cable restraint and that the restraint is tight.
Double insulated products, which are always marked with this symbol ⧈, are fitted with live (brown) and neutral (blue) wires only. To rewire, connect the wires as indicated above - **DO NOT** connect either wire to the earth terminal.



FUSE RATINGS
Autocharge6 3 AMP
Autocharge12 13 AMP

1.1.10. Products which require more than 13 amps are supplied without a plug. In this case you must contact a qualified electrician to ensure that a suitably rated supply is available. We recommend that you discuss the installation of an industrial round pin plug and socket with your electrician.
1.1.11. If an extension reel is used it should be fully unwound before connection. A reel with an RCD fitted is preferred since any appliance plugged into it will be protected. The cable core section is important and should be at least 1.5mm², but to be absolutely sure that the capacity of the reel is suitable for this product and for others which may be used in the other output sockets, we recommend the use of 2.5mm² section cable. If extension reel is to be used outdoors, ensure it is marked for outdoor use.

DANGER! BE AWARE, LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS VERY IMPORTANT TO READ AND FOLLOW THESE INSTRUCTIONS CAREFULLY, EACH TIME YOU USE THE CHARGING EQUIPMENT. *Follow these instructions and those published by the battery and vehicle manufacturers, and the maker of any equipment you intend to use in the vicinity of the battery. Remember to review warning marks on all products and on engines.*

1.2. PERSONAL PRECAUTIONS

✓ Ensure there is another person within hearing range of your voice and close enough to come to your aid, should a problem arise when working near a lead-acid battery.
✓ Wear safety eye protection and protective clothing. Avoid touching eyes while working near battery.
✓ Have fresh water and soap nearby in case battery acid contacts skin, clothing or eyes.
✓ Wash immediately with soap and water if battery acid contacts skin or clothing. If acid enters eye, flush eye immediately with cool, clean running water for at least 15 minutes and seek immediate medical attention.
✓ Remove personal metallic items such as rings, bracelets, necklaces and watches. A lead-acid battery can produce a short-circuit current which is high enough to weld a ring or the like to metal, which would cause severe burns.
✓ Ensure hands, clothing (especially belts) are clear of fan blades and other moving or hot parts of engine, remove ties and contain long hair.
✗ **DO NOT** smoke or allow a spark or flame in the vicinity of battery or engine.

1.3. GENERAL SAFETY INSTRUCTIONS

✓ Familiarise yourself with the application and limitations of the charger as well as the potential hazards. Also refer to the vehicle manufacturer's hand book. IF IN ANY DOUBT CONSULT A QUALIFIED ELECTRICIAN.
✓ Ensure the charger is in good order and condition before use. If in any doubt do not use the unit, contact your Sealey Dealer.
✓ Only use recommended attachments and parts. The use of unauthorised items may be dangerous and will invalidate your warranty.
✓ Use the charger in the upright position only and ensure it is placed on a stable surface which will adequately support its weight.
✓ Ensure the charger is disconnected from the mains supply before attaching/detaching the power clamps to/from the battery.
✓ Keep tools and other items away from the engine and ensure you can see the battery and working parts of engine clearly.
✓ Ensure the output voltage of the charger is the same voltage as the battery.
✓ If battery has caps to access the battery fluid, remove the caps and check the fluid level before connecting the power clamps. If necessary top-up the battery with distilled water by referring to the battery manufacturer's instructions (Apply the personal safety precautions described in part 1.2).
✓ If the charger receives a sharp knock or blow the unit must be checked by a qualified service agent before using.
✓ If the battery terminals are corroded or dirty clean them before attaching the power clamps.
✓ Keep children and unauthorised persons away from the working area.
✗ **DO NOT** dis-assemble the charger for any reason. The charger must only be checked by qualified service personnel.
✗ **DO NOT** try to charge a non-rechargeable battery.
✗ **DO NOT** try to start engine when charger is connected to battery.
✗ **DO NOT** try to charge battery if fluid is frozen.
❒ **WARNING!** *To prevent the risk of sparking, short circuit and possible explosion **DO NOT** drop metal tools in the battery area, or allow them to touch the battery terminals.*

✗ **DO NOT** allow power clamps to touch each other or to make contact with any metallic part of the vehicle.
✗ **DO NOT** cross connect power leads from charger to battery. Ensure positive (+/RED) is to positive and negative (-/BLACK) is to negative. If symbols cannot be distinguished, remember that the negative terminal is the one directly connected to the vehicle bodywork.
✗ **DO NOT** pull the cables or clamps from the battery terminals.
✗ **DO NOT** use the charger outdoors, or in damp, or wet locations and **DO NOT** operate within the vicinity of flammable liquids or gases.
✗ **DO NOT** use charger inside vehicle or inside engine compartment.
✓ Ensure there is effective ventilation to prevent a build-up of explosive gases, and do not cover or obstruct charger ventilation louvres.
✗ **DO NOT** use the charger for a task for which it is not designed.
❒ **WARNING!** ***DO NOT*** *simultaneously charge batteries of different capacities or discharge levels.*
❒ **WARNING!** *If a fuse blows, ensure it is replaced with an identical fuse type and rating. Use only Sealey genuine parts.*
✓ When not in use, store the charger carefully in a safe, dry, childproof location.

2. INTRODUCTION & SPECIFICATIONS

2.1. Introduction

2.1.1. Compact electronic battery chargers with pressed steel casing and carrying handle. Intelligent charge control makes them perfect for long term maintenance of batteries on irregularly or seasonally-used vehicles. AUTOCHARGE12 additionally features an analogue ammeter for accurate indication of charge rate. Suitable for lead acid or low maintenance batteries, these chargers react continuously to battery condition and deliver whatever charge rate is required. An LED display confirms the status of charger. These electronic chargers can be connected to a battery for an indefinite period – the intelligent circuitry constantly monitoring the voltage and maintaining the battery's level of charge at its optimum.

2.2. Specifications

Model	Input		Output			Recommended Battery Capacity
	Voltage	Frequency	Voltage	Current:		
				RMS	DC	
Autocharge6	230V AC	50Hz	12V DC	6A	4A	32 - 60 Ah
Autocharge12	230V AC	50Hz	12V DC	12A	8A	45 - 180 Ah

3. OPERATION

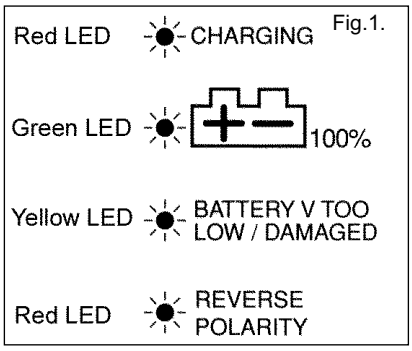


Fig.1.

❒ **WARNING!** Ensure you read, understand and apply the safety and operational instructions before connecting the charger power clamps to the battery. Only when you are sure that you understand the procedures is it safe to proceed with the actual charging process.

Note: This unit is designed to work on 12V batteries which have a battery voltage of between 9V and 14V. If the unit detects voltages outside of these limits it will automatically stop charging. Once the battery voltage returns to within the limits, charging will automatically re-start.

Note: This unit is fitted with a Thermal Cut-out which will switch the charger off. This will occur if the battery tries to draw too large a current for too long a period of time or in the event of high ambient temperature.

3.1. Status indicators

Four LEDs on the charger front panel indicate status (Fig.1.):
Upper Red LED - Battery is being charged but the charging is not complete.
Green LED - Battery is fully charged - disconnect charger from mains supply and **then** from battery.
Yellow LED - Battery voltage is below 9V or battery is damaged.
Lower Red LED - Clamps have been incorrectly connected to battery - disconnect charger from mains supply and reconnect red clamp to positive battery terminal, black clamp to negative terminal.

3.2. Battery charging

❒ WARNING! Ensure you read, understand and follow all safety instructions in Section 1 before attempting to use the Autocharge6 or Autocharge12.

3.2.1. Establish the battery voltage ensuring that it is 12V.
3.2.2. Remove battery caps, if possible.
3.2.3. Connect power clamps to the battery terminals, ensuring correct polarity.
3.2.4. Connect charger to mains power supply, switch on and ensure upper red LED is illuminated.
3.2.5. When upper green LED iluminates, indicating that battery is fully charged, disconnect charger from the mains supply and only then remove clamps from the battery terminals.
3.2.6. Carefully wipe any spillage of acid from the battery top and replace battery caps, if removed.
3.2.7. **FOR A VERY FLAT BATTERY, DISCONNECT CABLES FROM BATTERY TERMINALS AND ALLOW BATTERY TO REST FOR 30 MINUTES BEFORE ATTEMPTING TO CHARGE. REMEMBER TO PROVIDE A BACK-UP SUPPLY FOR THE VEHICLE WHEN DOING THIS IN ORDER TO PREVENT DAMAGE TO ON-BOARD ELECTRONICS. CHECK SEALEY MODEL VS207 FOR THIS FUNCTION.**

Declaration of Conformity We, the sole UK importer, declare that the products listed below are in conformity with the following standards and directives.

Electronic Battery Chargers
Models: Autocharge6 & Autocharge12
89/336/EEC EMC Directive
73/23/EEC Low Voltage Directive

CE

The construction files for these products are held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

Signed by Mark Sweetman  27th January 2003

For Jack Sealey Ltd. Sole UK importer of Sealey Power Products.

NOTE: *It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.*
IMPORTANT: No liability is accepted for incorrect use of this equipment.
WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.
INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.

SEALEY POWER PRODUCTS

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