

AcuMax 900 **Acumen** PLATINUM

The Acumen Platinum is a microprocessor-based battery charger and maintainer for all types of 12V lead/acid batteries up to 60 Ah rating. DO NOT use to charge NiCd or NiMH batteries.

SPECIFICATIONS;

Input; Volts; 220 to 250 AC, 50/60Hz Input Current Max. 150mA
Output; DC 12V/Max0.8A
Minimum battery voltage for charging; 2.3 V

CONTENTS;

- 1 x Acumen Platinum Smart Battery Charger
- 1 x Battery "eyelet" lead with waterproof connector, splash proof fuse-holder with 5 Amp fuse
- 1 x Crocodile lead for temporary connection of the battery
- 1 x 3m battery charging extension cable
- 1 x UK mains lead
- 1 x European mains lead
- 1 x Wall Bracket
- 4 x Screws and Wall fixings for Bracket to wall.



SAFETY FIRST! READ BEFORE USE!

Battery acid is corrosive. Wear protective clothing and avoid contact, particularly with the eyes. Flush spillages on the skin or in the eyes with plenty of water and seek immediate medical advice.

- Charge batteries in a well ventilated area - The gases released from the battery are explosive.
- Ensure there are no naked flames while charging
- Ensure that the battery is adequately vented and that vent tubes are not obstructed.
- Risk of electrocution - Protect the charger from dampness and humidity to avoid electric shock.
- To create a good contact ensure that the battery posts are clean and dry.
- This charger is equipped with a safety cut-outs to protect against overload, reverse polarity and short circuits.
- The charger should be kept dry – it is intended for indoor use only.
- Always wash your hands after handling lead acid batteries.

MOUNTING THE UNIT;









Mount the wall bracket to a suitable wall using the 4 screws, and if required, the 4 plastic fixing units. The Acumen Platinum charger will slide in and out of the mounting bracket. It is secured by the locking tab at the bottom.
NOTE! Do not depress the locking tab further than is required to release the charger from the bracket.



Depress the locking tab **lightly** to allow the charger to slide out of the bracket as shown in the next two pictures



USER INSTRUCTIONS;

1. Connecting to the battery.
NOTE! Although the Acumen Platinum incorporates “spark suppression”, Acumen recommend the leads are connected to the battery needing charging BEFORE switching on the mains supply. Due to the ‘spark suppression’ facility in the unit, the unit may take up to 15 seconds before it commences charging. This prevents sparking when connecting to a battery, thereby preventing risk of explosion from the gases from the battery.
NOTE! During recovery mode for deeply discharged batteries the charger will increase it’s output voltage. To prevent risk of damage to vehicle components we recommend the battery is removed from the vehicle.
2. Connect the Red clip/Red tagged eyelet to the Positive terminal of the battery – this terminal is usually marked ‘+’ or marked in **RED**
Connect the Black clip/Black tagged eyelet to the Negative terminal of the battery – this terminal is usually marked ‘-’ or marked in **BLACK**
3. Connect to and switch on the mains power supply. The Power On LED  should illuminate.
(If not check the power supply and fuse in the main supply).
NOTE! If the Reverse Polarity LED  illuminates, it will be accompanied by an audible beep as well. Reverse the battery connections.
4. The charging LED  will illuminate while the charger tests and if necessary, charges the battery to which it is connected.
Charging will be at a constant 0.8A until the battery voltage stabilizes at 14.2-14.9V.
NOTE! If the voltage of the battery to be charged is less than 2.3 Volts, the charging cycle cannot begin and this LED will not illuminate.
5. The ‘Good Battery’ LED  will illuminate only if the battery can ‘hold’ it’s charge and does not discharge itself.
NOTE! Even if you ‘use’ the battery while the charger is connected and working, the Green LED will still illuminate even if the charger is charging. The Green, ‘Good Battery’ light means what it says, you have a good battery regardless of its state of charge. If you disconnect the battery being charged, and restart charging on the same battery, the charger will revert to (4) above. ie; the charger performs its test cycle from the beginning.
6. The ‘Weak Battery’ LED  will illuminate if the battery voltage will not exceed 12.2 Volts. This normally means that the battery has a self-discharge rate which is very high – certainly higher than the charger can replace. However, bear in mind that if you are using the battery for a purpose (such as powering lighting on the motorcycle) which draws more than 0.8 Amps, while the charger is connected and switched on, the charger will not be able to charge the battery and this symbol may illuminate.
In this case, remove the load from the battery (switch off the lights!) and try again.
Do not discard the battery the first time this symbol illuminates!
7. The Blue “Recovering” LED  will illuminate when the battery voltage is between 2.3 and 12.2 Volts. In this mode, the charger will attempt to recover the battery by charging at 18-22 Volts at <200mA (less than 200mA).
NOTE! If the battery recovery is successful, the charger will automatically turn to the Charging LED  and the battery will continue to be charged.
NOTE! If the recovery is unsuccessful, the Blue LED  will flash, accompanied by a beeping from the charger unit.
8. The Acumen AcuMax900 Platinum is warranted against defective material or workmanship for 3 years from the date of retail sale. The purchaser should return the unit to the seller, or if this is not possible return directly to Acumen Electronics, postage paid, with proof of purchase. Warranty will not extend to causes of failure as a result of abuse, damaged or repaired/attempted repair by any unauthorised third party.
Your statutory rights are not affected.
9. All components are available separately. Visit our web site for more details.