

English



**Installation Instructions -
For Service Persons Only**

Model No: 3.2AMP

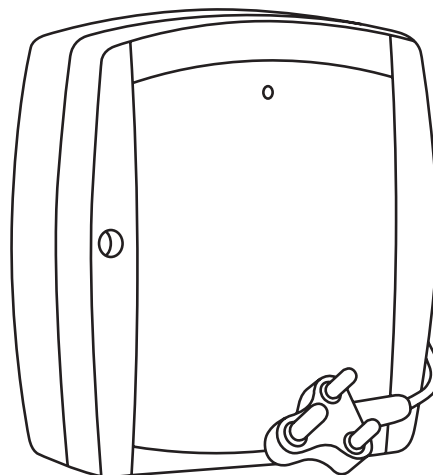
Product Description

The device is a 12VDC Power-supply unit designed to trickle charge 12VDC GELL/ AGM / LEAD ACID batteries with a max Amp Hour rating of BNH.

NOTE: This product is not designed for charging Lithium Ion type batteries.

Features

- Microprocessor controlled charging output.
- Low battery switch off at 11VDC +/-5%.
- Over voltage protection on the battery charger at 15VDC +/-5%
- Resettable Fuse protection on DC output.
- Fuse protection on AC input.
- 50mA Quiescent current on power failure.
- ABS **UL94** HB flame resistant plastic enclosure.



Technical Specifications:

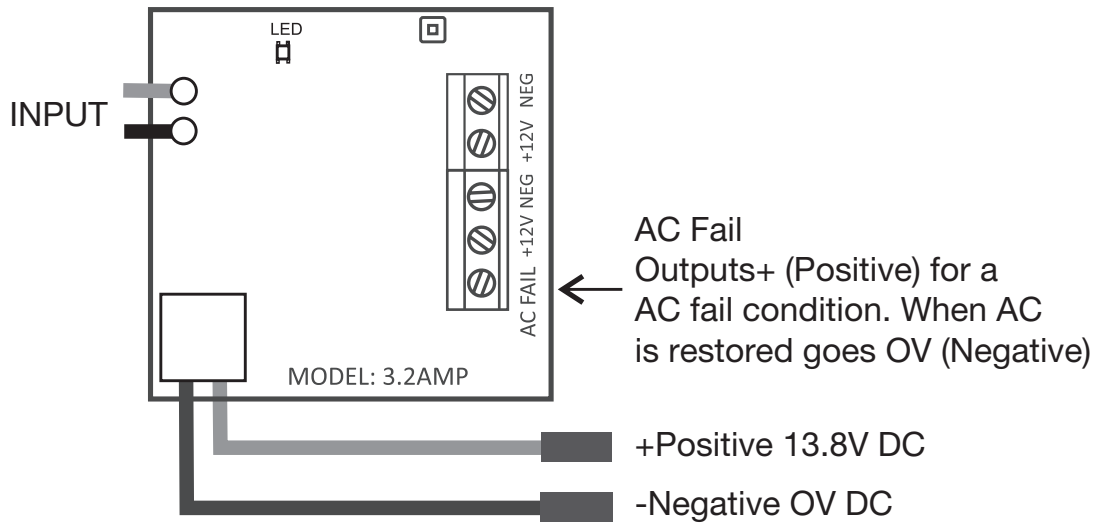
Model:	3.2AMP
Housing colour and material:	White ABS
Input Voltage range:	110V - 240VAC 50Hz 0.5A
Output Voltage range setable:	12VDC - 15VDC
Max Current:	3.2A@ 12VDC
Operating Temperature:	-3°C to 49°C
Dimension (lxbxh)	200 x 180 x 80mm
Gross weight:	0.805Kg

Warranty

This product is sold subject to our standard warranty conditions and is warrantied against defects in workmanship for a period of 2 years.

Customer Support line: +2711 462 5101 | E-mail: technical@sherlotronics.co.za

Top Controller Board

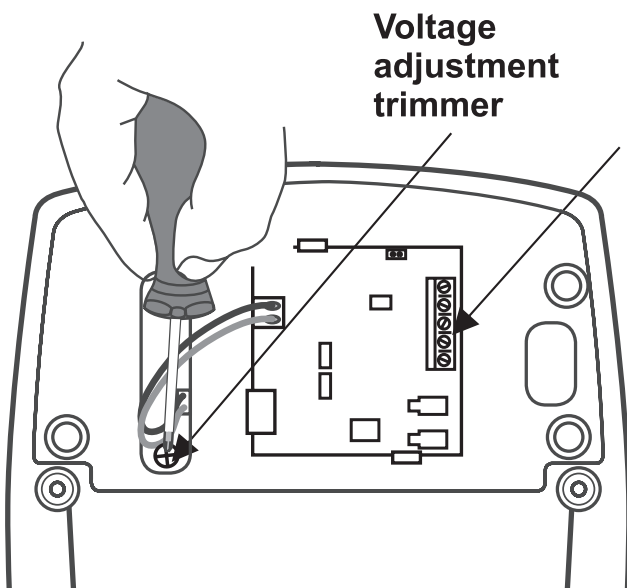


NOTE:

Before connecting the battery, plug the unit into mains. Using a voltage meter measure Volts across the Red(+) and Black(-) battery wires to check that the charge voltage is between 13.6V -14.2V D.C. The recommended battery charge voltage is +/-13.8VDC. 5% higher or lower than 13.8VDC is acceptable. If you notice a +/-7VDC reading on your multi meter every so often when no battery is connected, this is normal as the unit is pulsing between the PWM 100Hz charge cycle and the constant voltage charge cycle.

Disconnect Mains power before wiring up the equipment to the unit.

The unit will create slight internal heat on all components including its battery. Ensure that the unit has adequate ventilation when selecting the installation location.



DC Output terminal connectors

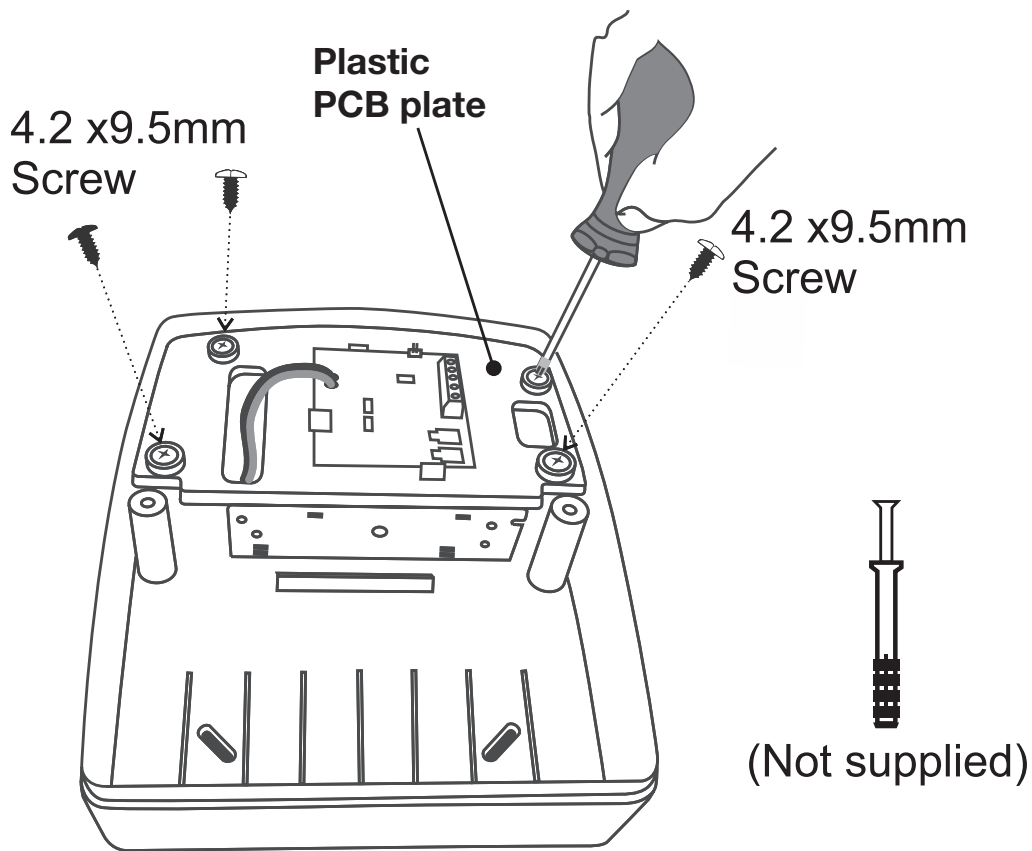
Locate the **Voltage adjustment trimmer** on the bottom switch mode PCB next to the green LED. Turning clockwise will increase the voltage. Set Voltage to **13.8VDC**. Measure the voltage output on the **RED/ BLACK Battery wires** using a multi-meter.

Securing the plastic PCB plate

The unit is supplied with a packet of screws.

The “**plastic PCB plate**” is not screwed down so that it is easy to open up the unit to run cables out of the box or to access the mains leads or the DC input wires.

Please use the Qty 4:- 4.2 x 9.5mm Self taper screws that are provided to screw the plastic plate securely to the “Plastic base” Only do this once you have run the cables out of the bottom of the plastic base and mounted the unit onto a secure wall using three (3) x M6 x 42 Nail in anchor or similar.

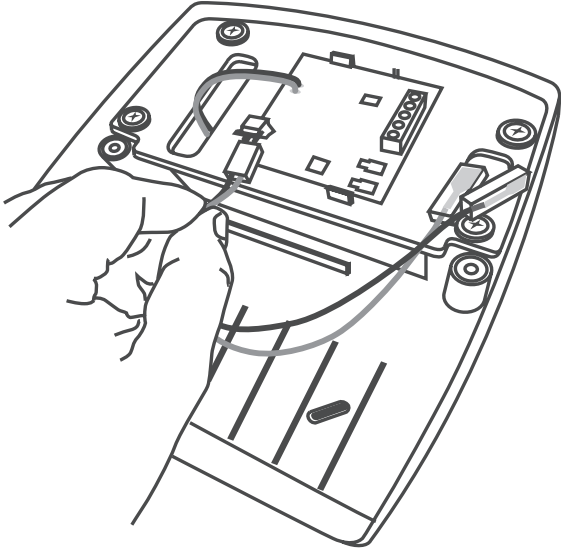


LED Indication

GREEN	Power is on & the unit is charging the battery
ORANGE	Power failure condition. The battery Voltage is above 12V
RED	Power failure condition. The battery Voltage is below 11.6V and is almost depleted
RED FLASHING	Over Voltage protection. Input is above 15VDC. The Charger is turned off to protect the battery.
OFF	Power failure condition. The battery Voltage reached under 10V & so the unit switched off.

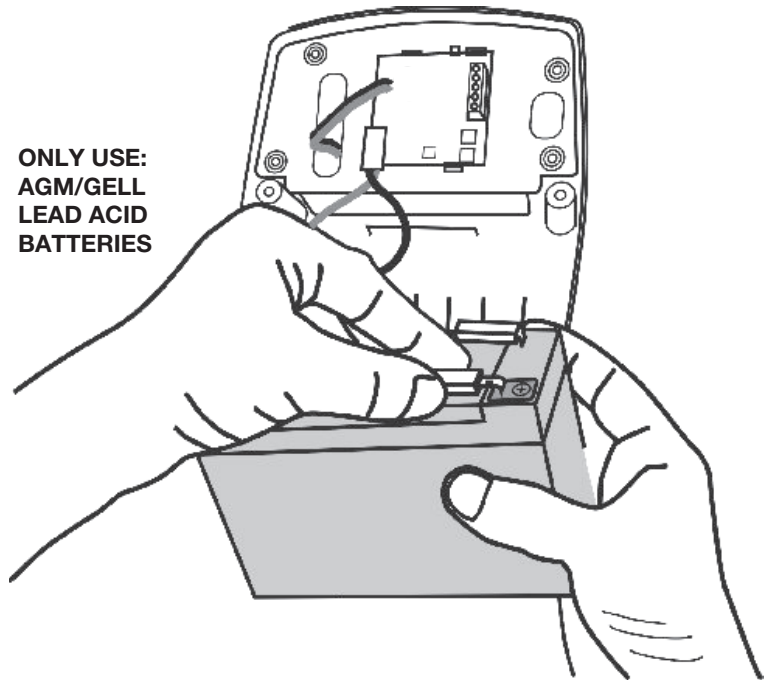
Battery Lead Plug

You can easily unplug the red/black battery leads if you wish to install or remove a battery from the unit. The Plug can only fit in one direction. Negative (Black wire) is the first wire from the left side.



Installing the Battery

With the AC power off, plug the Negative (Black) & Positive (red) wires to the battery and then insert the battery into the battery compartment.



The device is intended to ONLY Charge 12VDC AGM / GELL/ Lead Acid batteries with a max capacity ampere hour rating of 8Amp hour. A bigger battery may result in the unit not operating correctly and possible over heating.

THE SOCKET OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE

Approvals

This product is approved for use in residential, commercial and light Industrial environment and complies with the essential protection requirements of the R& TTE Directive 1999/EC on the approximation of the laws of the member states.

Pending Certifications

EN 55022:2010
EN 55024:2010
EN 6100-3-2:2006+A1:2009 + A2:2009
EN 6100-3-3:2008
IEC 60950-1:2005 + A1:2009
EN 62368-1: 2014+A11:2017

