

Model No: 3.2AMP

Product Description:

The device is a 12VDC Power-supply unit designed to trickle charge 12VDC lead acid or gell batteries with a max Amp Hour rating of 8A/H. The output is adjustable from approx: 12VDC - 15VDC +/-10% The product is designed for battery backing up 12VDC power to CCTV cameras, Alarm panels & access control door systems

Features:

- Microprocessor Controlled charging output.
- Low battery switch off at 10VDC +/-5%.
- Buzzer tones on battery low and AC Fail.
- 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 nominal:	12VDC - 14.6VDC ---
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 warranted against defects in workmanship for a period of 2 years.

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

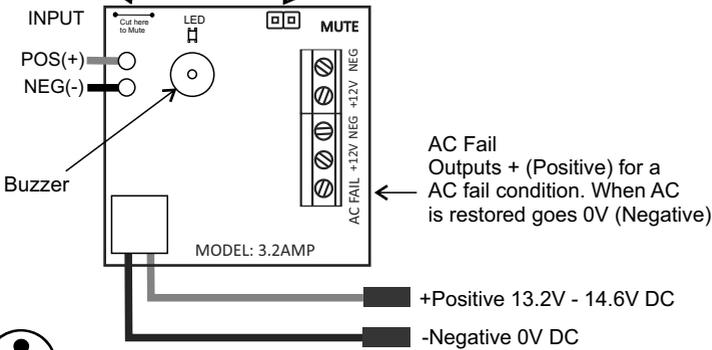
Top Controller Board

Mute the Buzzer

On models after Nov 2021
To Mute the Buzzer cut the
trace as shown with a sharp knife.

Mute the Buzzer

On models pre Oct 2021
Bridge the two pins to
MUTE the buzzer
and leave on.



AC Fail
Outputs + (Positive) for a
AC fail condition. When AC
is restored goes 0V (Negative)

It is recommended
to set it to 13.8VDC
for best battery life

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 13.2V-14.2V D.C. The recommended battery charge voltage is +/-13.8VDC.

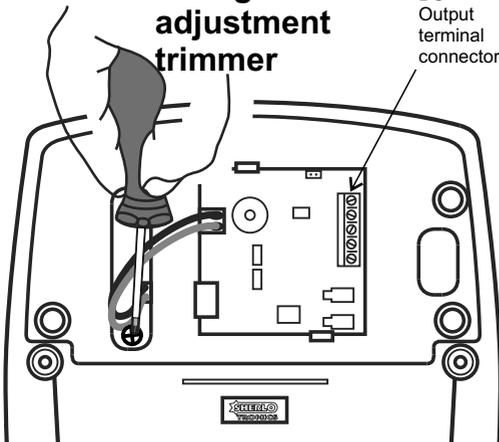
5% higher or lower than 13.8VDC is acceptable. If you notice a +/-7VDC reading on your multi meter when no battery is connected, this is normal as the unit is pulsing between the PWM 100Hz charge cycle and the Constant Voltage charge cycle.

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.

Voltage adjustment trimmer

DC
Output
terminal
connectors



Locate the trimmer on the bottom
switch mode PCB next to the
green LED. Turning clockwise
will increase the voltage.

You can set a voltage between
12.8V - 14.6VDC.

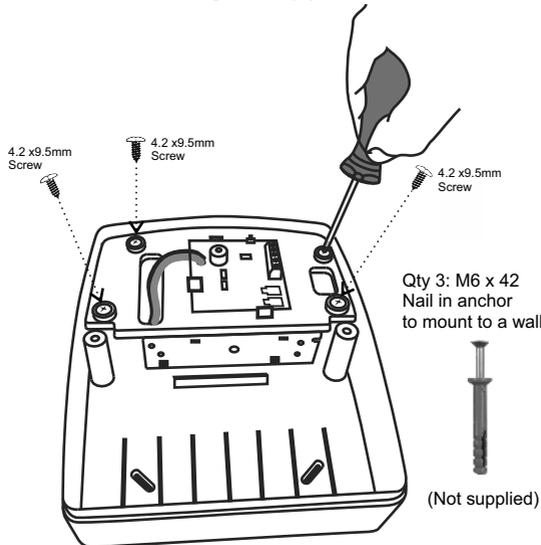
Measure the voltage output on the
DC Output terminal
connectors
using a multimeter.

Securing the plastic plate

The unit is supplied with a packet of screws.

The “Plastic 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.



AUDIBLE TONES

POWER FAILURE	Beeps every 30 seconds
BATTERY CUTOFF	30 second WARNING Beep before the unit cuts off the battery voltage

Note:

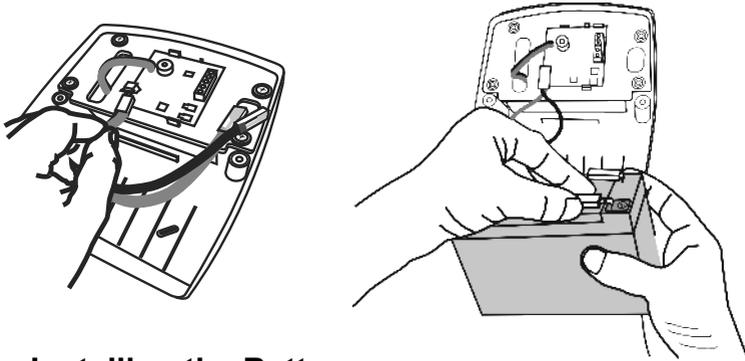
The Audible tones can be disabled or muted by bridging the MUTE jumper found on the top right hand side of the PCB.

LED INDICATION

GREEN	Power is on & the unit is charging the battery at the correct voltage
ORANGE	Power failure condition. The battery Voltage is above 12V & still good
RED	Power failure condition. The battery Voltage is below 11.5V & is almost depleted
OFF	Power failure condition. The battery Voltage is below 10V & the unit is 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 Lead Acid batteries with a max capacity ampere hour rating of 8A/H. A bigger battery may result in the Power supply not operating correctly. We recommend the FORBATT 8A/H Gell **Model: FH8-12G** battery for most reliability.

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.

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

IEC 623681-1:2014 (second edition)

