What to do if the 130Amp hour battery goes flat over periods of disuse

Mobile & Static Fusion Units

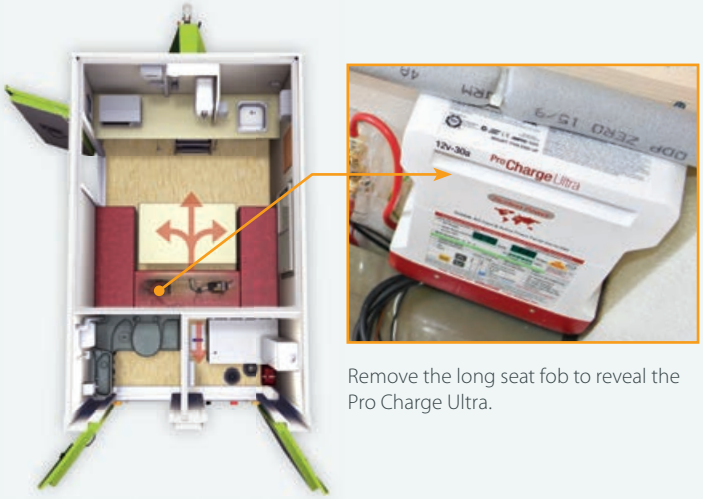
A guide to resetting the Sterling Power 130Amp battery charger programme

from **groundhog**

Locating the Pro Charge Ultra

Fusion Mobile

In the Fusion Mobile, the Pro Charge Ultra is located under the seat in the canteen area.



Remove the long seat fob to reveal the Pro Charge Ultra.

Fusion Static

In the Fusion Static, the Pro Charge Ultra is located within the battery storage unit in the generator area.

The issue...

Over the past few months, Groundhog UK Ltd have received a number of queries about the 130Amp hour battery in our customers' Fusion units going flat over periods of none use.

Our customers are able to start the generator to provide 230 volt electric for powering the battery charger.

However, as the voltage in the 130Amp hour battery is below 6 volts, the charger does not recognise that it is connected to a battery.

The investigation...

After an investigation, we found that customers who have the AMS tracking systems fitted are most likely to see this issue as the tracker is not fitted through the battery guard which normally prevents the voltage dropping below 10.5 volts.

The tracker is fitted directly off the battery to ensure there is a constant 12 volt supply for maintaining a constant signal to the service provider.

The solution...

Simply reset your Sterling Power battery charger from '**battery charging**' mode to '**power supply**' mode.

When the 130Amp hour battery is fully charged in '**power supply**' mode, ***the charger will not shut off*** but will ***become the provider of the 12 volt power for appliances within the unit***. Also (in the '**power supply**' mode), the charger ***does not require voltage from the 12 volt battery*** to start giving an output.

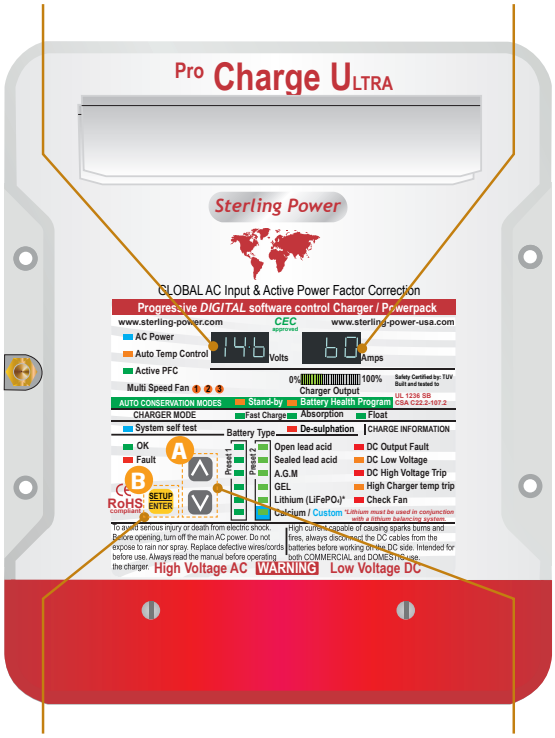
Please note: Using the '**power supply**' mode makes no difference to the set up of the unit.

Please follow steps 1-5 to reset battery charger

Resetting the Sterling Power 130Amp battery charger programme

Voltmeter, showing the average voltage being produced by the charger.

Ammeter, shows the total current being produced by the charger.



Setup/Enter (B)

Up and Down arrow buttons to select charge options (A)

1 Start the generator

6kVA generator

Press the ON/OFF button then press and hold the start button until the engine is running.

To stop the engine, press the ON/OFF button.

MGTP 6000 SS LA

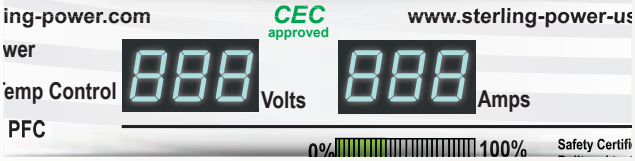
9.8kVA generator

Turn key to GL on control panel, wait for the glow plug light to go out then turn key to ST (start).

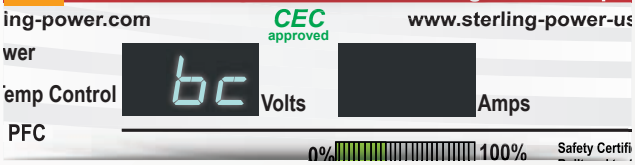
To stop the engine, turn key to the OFF position.

MGMK 10000–300

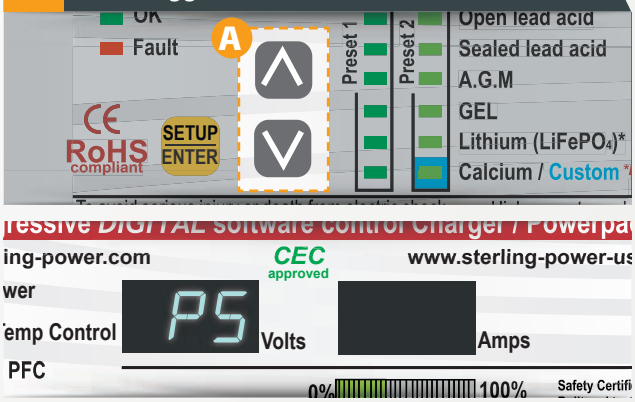
2 On start up the battery charger will first show "888" in Voltmeter & Ammeter windows.



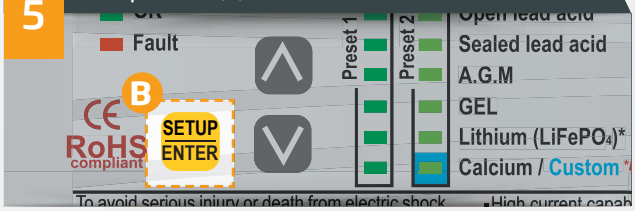
3 The display then changes to 'bc'.



4 Press either Up or Down arrow button (A) to toggle to 'PS'.



5 When the display reads 'PS', press and hold Setup/Enter (B) for **5 seconds**.



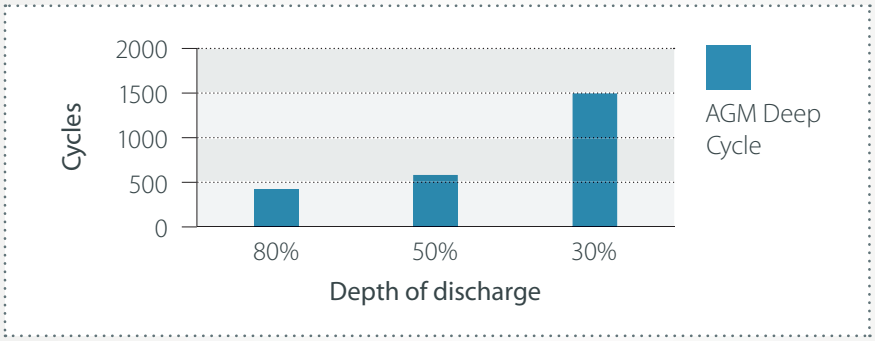
Once stage 5 is completed, your Sterling Power battery charger is set to 'Power Supply' mode.

This can be checked by switching off the generator and restarting when the charger goes off; on start up you should see 'PS' rather than 'bc'. If 'bc' is still displayed, please repeat procedure.

Continued overleaf…

Cycle life of batteries

Batteries age due to discharging and recharging. The number of cycles depends on the depth of discharge, as shown below.



PLEASE NOTE:

Discharging the 130Amp hour battery down to below 10 volts can decrease the life cycle of your battery dramatically.

It is advised that all Groundhog units are started twice a week and run for the full 3 hour cycle to prolong the battery life.

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