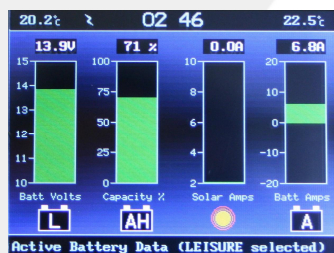


EC480 Control Panel - Batt Amps (A) and Capacity % (AH)

The EC480 (or EC300) control panel, connected to the EC500 PSU has the ability to measure and display the current (A) going into or out of the active (Selected) battery. Positive Current (+) indicates charging of the battery whilst Negative Current (-) indicates discharging of the battery.

The EC480 control panel also displays the approximate remaining capacity of the leisure battery (AH). As the battery is charged this gauge will increase and as the battery is discharged it will reduce. This is a useful indication of useable battery power, However is only a guide and you should always take note of the actual battery voltage (See table opposite)

Off Load Voltage	% Charge
12.8	100%
12.5	80%
12.1	50%
11.5	10%



Active Battery Screen



EC480 Control Panel

Capacity % (Amp Hours) – EC480 Control Panel ONLY

The AH reading is not a reading or measurement from the battery, It is purely a calculation based on battery size, the charging current into the battery and the current drawn from the battery and as such is reliant upon a correctly calibrated ammeter and the correct sized battery being programmed into the control panel (See Below).

This reading will also be inaccurate if the leisure battery has been removed from the van and charged independently, or an additional larger battery fitted. In this case a programming option is available to reset the AH Start Point. To check/change the programming options follow the below instructions:

- 1) Turn off the 12V Power To the Van
- 2) Scroll to the manufacturer logo screen (E.g. Autotrail)
- 3) Press and Hold the Up and Down Scroll arrows to enter the programming mode
- 4) Use the scroll keys navigate the menus
 - a) Battery Size (Set to Appropriate Size)
 - b) AH Start Point (Set To Estimated Battery Capacity, I.e. 100% when fully charged)
- 5) Use the Select (<) key to adjust the settings
- 6) Scroll to "Exit Advanced" and Use the Select key to exit.

Calibration of the Ammeter – EC480\EC300 Control Panels

The ammeter is within the EC500 PSU and requires calibration to the EC480 (Or EC300) control panel at initial install. Following this initial calibration you may need to re-calibrate if the reading is inaccurate, one cause of an inaccuracy could be due to a replacement control panel being installed. To re-calibrate follow the below instructions:

- 1) Turn off the 12V Power to the van
- 2) Turn off the Battery Charger
- 3) Where possible solar panels should be covered
- 4) Scroll to the active battery screen (Battery Current Screen on EC300)
- 5) Press and hold the select button (<) to start the calibration process.
- 6) Note the "A" \ "Batt Amps" Reading reset to 0
- 7) Once calibrated you should see a more accurate display of the current.

Note: Best operation of this functionality is achieved with V131 Control Panel and PSU, A programmer is available to update to this version.