

Supplementary material 1A cont.

Battery state of charge analysis cont.

Individual battery SOC differential	
Max. Allowable	The maximum allowable battery SOC differential is 5%
Battery voltage SOC comparison	
Cell voltage	A cell voltage of over 4100mV represents a 100% SOC
Battery voltage	A battery voltage of over 400V represents a 100% SOC

48 - Battery reset procedure

If the batteries present outside of a 5% difference value at the end of a charge cycle or at the end of a flight, or if the SOC does not display close to 100% despite the battery voltage being close to 400V, the following battery reset procedure must be completed

- Power on the Master, Avionics and Battery switches
- Turn the EPSI control toggle 3 notches to the right (clockwise), 5 notches to the left (counter clockwise) and 6 notches to the right (clockwise). A sub menu will be displayed.
- Using the EPSI control toggle, select the F at 'Battery restart F/R' and press the control toggle, then navigate to the R and press the control toggle. The batteries will each start a reset procedure. At this point you can exit the sub menu by navigating to the 'EXIT' selection and watch the battery reset on the main EPSI display. A low SOC and DC/DC malfunction error will display during the reset. Clear these warnings with a press of the EPSI control toggle.