

## Procedure to replace V/I meter in 2U tray

### \*\*\* Important note\*\*\*

Although the meter is easily unpluggable from the meter leads, the current transducer used with these meters is especially calibrated to each meter module and **MUST** be replaced by the one supplied with the new meter. Not doing so will cause inaccuracy of the current reading and a failure to indicate 0 current or no load currents.

- 1) Remove the 2U tray from the 19 inch rack.
- 2) Remove the lid retaining screws around the top of the rack tray.
- 3) Using appropriately sized pozidrive 1 screwdriver inserted through holes in the side of rack tray on the side closest to the PSU module, remove the three lid retaining screws on the side of the PSU module itself. Then remove the other three lid retaining screws on the opposite side of the PSU module.
- 4) Remove the 8 upward facing lid retaining screws and remove the PSU module lid.
- 5) Note the position of the plug and header socket for the V/I meter on the main PCB. The header socket has a white designator printed on the PCB. This header is designated VI J7. Do not unplug this plug there is no need but do note its position in case it becomes unplugged while changing the current transducer. Also note that the current transducer is installed in the 'Output Positive' cabling. Most important to note is the direction of the arrow on the side of the current transducer being removed as the arrow dictates the current flow direction which in turn relates to the meter showing either charge or discharge current.
- 6) Unplug the three pin header plug from the side of the existing current transducer.
- 7) Unplug the two quick connect plugs from the sub board which has the output capacitors mounted on it and the QC spade terminals that the output positive plugs are connected to. Slide the QC terminals through the centre hole of the current transducer one at a time.
- 8) Slide the output positive QC's through the new current transducer making sure that the transducer is correctly orientated for current direction.
- 9) Unplug the existing power and transducer cables from the meter.
- 10) Remove the four meter bracket retaining screws and discard the old meter.
- 11) Fit the new meter in the reverse order as the old one was removed and reconnect the power and current transducer plugs into the new meter.
- 12) Replace the lid and lid retaining screws in reverse order as disassembly.
- 13) Only when the lid has been replaced apply mains and check that the meter correctly indicates 0A and 55volt (V approx dependant on temp) a small load can be applied in order to check correct current transducer orientation, current reading should **not** show a negative reading.
- 14) Re-install tray into rack