

## MST-0429

MWA power supply module

### Test: 1 Hour Load test

Serial number: 001

Tester: C. Coleman

Date: 15/11/10

### Jig details

Detailed wiring diagrams and jig layout can be found in the following document:

- MWA JIG-005 - PSU Switching Jig
- MWA JIG-006 - MWA PSU Loading Jig

### Test procedure

**Notes:** Conduct at room temperature.

To be done after completion of MWA PSU Module Load Testing 03.

1. Turn all DIP switches off (JIG-005).
2. Plug DB25 connector of JIG-005 into J1 of Cosel Unit.
3. Connect +5V/GND to JIG-005.  
 **Verify all LEDS are off.**
4. Plug JIG-006 - MWA PSU Loading Jig into the completed Cosel Unit, use:
  - a. P9 for +5V / +12V
  - b. P15 for +48V
5. Configure the Loading Jig Switches as follows:

Switch Number	+5v / +12v Loading Jig	+48v Loading Jig
SW 1A	ON	ON
SW 1B	ON	ON
SW 1C	OFF	ON
SW 1D	-	ON
SW 2A	ON	ON
SW 2B	ON	OFF
SW 2C	OFF	-

6. Connect 240VAC to Cosel unit.
7. Ensure adequate air flow over Load Jigs (minimum of 2 pedal stool fans).
8. Turn DIP switch #1 ON.

9. Turn DIP switch #2 ON.
10. Simultaneously Turn ON DIP switches #3, #4 & #5.  
 *Verify 5V, 12V & 48V lines are within  $\pm 5\%$  at test points on Load Jig.*
11. Continue to monitor board temperatures and voltages to complete the following table.

Time (mins)	Voltage (V)			Temperature (°C)
-	5V	12V	48V	+5V PCB Track
0	5.12	11.97	47.99	25.3
10	4.42	11.32	47.2	40.9
20	4.42	11.32	47.2	41
30	4.42	11.32	47.2	40.9
40	4.42	11.32	47.2	40.1
50	4.42	11.32	47.2	40.6
60	4.42	11.32	47.2	41.7

12. Turn OFF all DIP switches and disconnect power from Cosel Unit.