Technical Bulletin

Metrodata AC PSU Change

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USAGE!

This Bulletin is for the assistance of qualified Service Engineers, and the work described should not be attempted by End Users of the products.

WARNING !

The product contains static sensitive devices. Installation should be carried out at a properly equipped anti-static station by personnel wearing anti-static straps.

INTRODUCTION

This Bulletin describes the procedure for replacing a 100-250 VAC / 50-400 Hz PSU.

OPENING THE SHELF UNIT

1) Remove the 4 x M3 countersunk screws which attach the front panel to the top cover. Remove the 3 x M3 countersunk screws which attach the rear panel to the top cover.

2) Remove the 3 x M3 countersunk screws on each side of the DSU which hold the top cover on and the rack mounting ears in place. The rack mounting ears will now be free of the unit top

3) Lift the cover off the shelf unit. On some models it may be necessary to remove the front panel of the DSU by removing the 3xM3 screws which retain the front panel to the baseplate. Later models of LM1100 card are reduced in size so that this is not necessary. Visual inspection will reveal whether the card is easily removed without removing the front panel.

4) Remove the 3 x M3 countersunk screws on the rear panel that retain the PSU to the rear panel.

REMOVING FAULTY PSU

5) Disconnect the Red (+ 5V) & Black (- 0V) wires from PSU to PCB.

6) Remove the 6 x M3 nuts from the baseplate which hold the PSU in place and slide the PSU from the DSU.

INSTALLING REPLACEMENT PSU

7) Install the replacement PSU with the mains outlet facing the back panel then replace the 6 x M3 nuts which hold the PSU to baseplate.

8) Connect the red wire (+ 5V) to the Pin nearest the front panel (See Figure xxx) and connect the black wire (- 0V) to the Pin furthest from the front panel (See Figure xxx).

RE-ASSEMBLY

9) Re-assemble the shelf unit by following steps 1-4 in reverse order i.e. carry out steps 4,3,2,1.as described above.

CONFIGURATION

The DSU may have to be reconfigured to operating requirements before it can be returned to service.

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