FCO CA06199: Mean Well Power Supply PS4 for TH2

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Product

- Trendsetter® NEWS 100
- Trendsetter NEWS 150

FCO priority

Next failure

Background

Trendsetter NEWS output devices with serial number NM344 and later use Mean Well power supplies instead of Astec power supplies.

On Trendsetter NEWS 100 and NEWS 150 devices with serial numbers below NM344, the TH2 head is powered by a combination of either an Astec or a Mean Well PS3 and an Astec PS4. If the Astec PS4 fails, it must be replaced with the new Mean Well PS4. PS3 does not need to be replaced (it can remain as either an Astec or a Mean Well).

Because the new PS4 is larger than the power supply it is replacing, the combination of PS3 and PS4 will not fit into the previous power supply position. In order for both power supply units to fit, a new bracket has been attached to the PS4. You need to attach the existing PS3 to this bracket and then reattach the combination power supply unit back into the power box.

Parts required

Part Number	Part Name	Quantity
500-02649A	ASSY, PS4, TH2,+48V MW 750W, W/CAB, TSM	1

Procedure

To replace the Astec PS4 power supply with the new Mean Well power supply:

1. Power down the output device and open the power box.
2. Disconnect Astec power supply PS4 cable 10-5087A from power distribution board (PDB) connector J5.
3. Disconnect thermal imaging head power cable 10-4850A from Astec power supply PS4.
4. Disconnect the ground cable from Astec power supply PS4.
5. Remove Astec power supply PS4 and cable 10-5087A (Figure 1) from the power box.



Figure 1: Failed Astec power supply PS4 (13-4791) and cable (10-5087A) removed from power box

6. Disconnect thermal imaging head power cable 10-4850 from Astec or Mean Well power supply PS3.
7. Disconnect Astec or Mean Well power supply PS3 cable from PDB connector J3.
8. Disconnect the ground cable from Astec or Mean Well power supply PS3.
9. Remove Astec or Mean Well power supply PS3 from the power box.
10. Attach Astec or Mean Well power supply PS3 to the bracket holding the new Mean Well PS4 (see Figure 2).

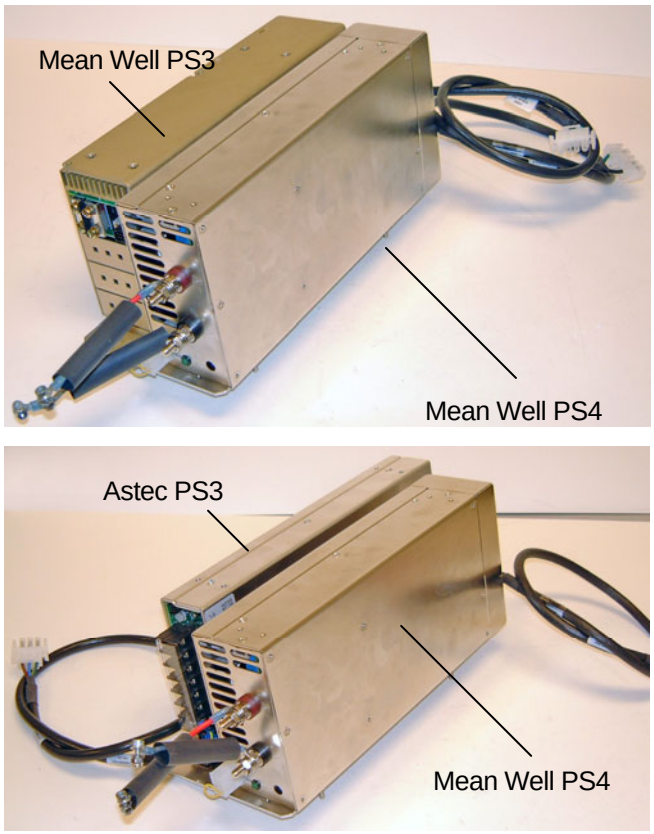


Figure 2: Mean Well PS4 with bracket and cables attached to Astec or Mean Well PS3

11. Attach the combination PS3/PS4 power supply unit with the new bracket to the power box.
12. Reconnect thermal imaging head power cable 10-4850A to PS3.
13. Connect thermal imaging head power cable 10-4850A to the short adapter cables on the new Mean Well power supply PS4, using a screw, nut, and star-washer (see A in Figure 3).
14. Cover the connections between cable 10-4850A and the short adapter cables on the Mean Well power supply PS4 with heat-shrink tubing. Use cable ties to secure the heat shrink tubing to each connection (see B in Figure 3).

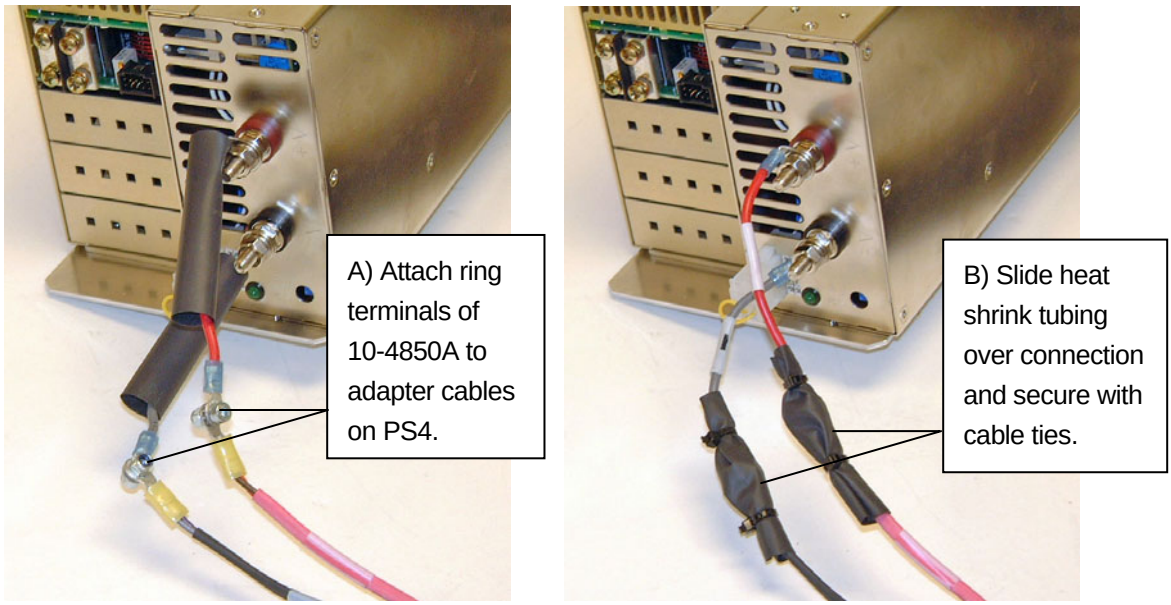


Figure 3: Connecting 10-4850 to modified Mean Well PS4 connections

15. Reconnect cable from power supply PS3 to PDB connector J3.
16. Connect new cable 220-0124A from power supply PS4 to PDB connector J5.
17. Reconnect ground cables to power supplies PS3 and PS4.
18. On the Trendsetter NEWS output device's ECO 100 label, mark item #21.

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