

Operations Manual

POWER SUPPLY ADJUSTMENT PROCEDURE



SEI Incorporated
5115 Pegasus Court
Suite Q
Frederick, Md 21704
Phone 301-694-9601
Fax 301-694-9608
Email info@seipower.com
Web <http://www.seipower.com>

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1) **Purpose-** To adjust the power supply voltage level in the field.

2) **Required Equipment**

a) Digital Voltmeter set to measure DC volts, at least 100 volts full scale.

3) **Adjustment Procedure**

A) UNITS WITH ONE POWER SUPPLY

Remove the internal battery fuse. Disconnect any external battery packs. Connect the digital voltmeter to one of the external battery (2 pin) connectors of the unit

Adjust the potentiometer on the power supply until the voltmeter reading is 54.6 Vdc.

Re-install the internal battery fuse and re-connect any external battery packs.

B) UNITS WITH MULTIPLE POWER SUPPLIES

Remove the internal battery fuse. Disconnect any external battery packs.

Using the digital voltmeter, measure the sense voltage on each of the power supplies. The sense voltage is measured on the power supply terminal block, between the connector with the white wire and the connector with the black wire. Adjust the potentiometer on each power supply until the voltmeter reading is 56.0 Vdc.

Note: When setting sense voltages, always adjust the potentiometer until the sense voltage reading changes, and then set it to the desired voltage. Additionally, anytime one power supply is adjusted, all other power supply sense voltages must be re-checked.

Once the sense voltages have been balanced, connect the digital voltmeter to the external battery connector. Verify that voltmeter reading is 54.6 Vdc

If the voltmeter reading is not correct, tweak each of the power supplies until the voltage reading at the external battery connector is 54.6 Vdc. Then measure the sense voltage on each of the power supplies. Adjust the power supplies such that the sense voltages are equal by adjusting any unit with a lower sense voltage up. Once the sense voltages have been balanced, connect the voltmeter to the external battery connector and verify the voltmeter reading is 54.6 Vdc.

NOTE: The final value of the power supply sense voltage is not important. As long as the sense voltages on all power supplies are equal and the voltage reading at the external battery connector is correct, the unit is properly adjusted.

Re-install the internal battery fuse and re-connect any external battery packs.