HIGH VOLTAGE - RACK MOUNTING POWER SUPPLIES

Standard features include constant-voltage/constant-current crossover, remote programming of both voltage and current, provision for output inhibiting, and arc/short circuit protection.

INSTALLATION AND OPERATION

These power supplies are constructed in the form of assemblies that are front mountable in standard 19" wide RETMA cabinet racks. If possible, mount in the rack spaced away from other heat dissipating or air blocking assemblies, by using blank front panels above and below each power supply. This will result in cooler running operation, which in turn will maximize stability and reliability.

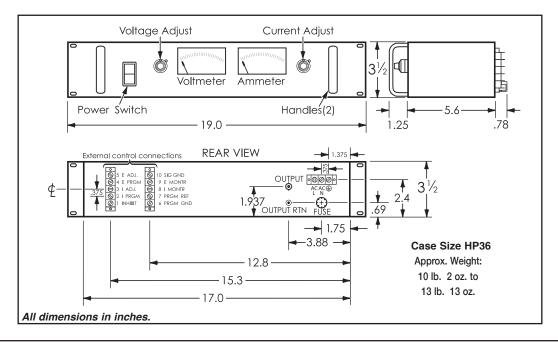
Do not connect the output of two or more power supplies in series or in parallel.

The high voltage output return, signal ground, programming ground and case ground are common and internally connected. However, each function should be wired separately, in order to avoid ground loops and/or transients resulting from any shorting or arcing in the external wiring or the load.

The power supplies are shipped from the factory wired for local (front panel) voltage and current control, and with the output set to 500 volts. Remove appropriate jumper only when remote voltage or current control is desired.

MAINTENANCE

The internal high voltage sections are encapsulated, and are not repairable. The control circuitry on the printed circuit board is repairable. Servicing the power supply with input power applied involves substantial risk of shock. If a supply is in need of repair, returning it to the factory is recommended.



CAUTION

The voltages developed by these powers supplies are high enough to cause serious electric shock. To minimize risk of shock:

- 1. Make ALL connections before applying input power.
- DO NOT remove high voltage output lead or open the high voltage return lead during operation. IN THE ABSENCE OF A SECURE HIGH VOLTAGE RETURN LEAD, TOUCHING POWER SUPPLY CASE MAY RESULT IN SHOCK.
- 3. Servicing the power supply with input power applied involves substantial risk of shock.
- 4. Performance testing requires special equipment and must be done with extreme caution.
- 5. To prevent power supply damage, DO NOT apply a negative polarity control voltage to the voltage or current programming terminals.
- 6. Do not route high voltage output lead near input or control wiring.

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