

Installation Instructions

Deuterium Lamp Power Supply

Model Series 7700 / HC302 / M7628

MADE IN THE U.S.A.

Input Specifications

- Power Sources must be an Isolated Secondary Source Insulated from AC Mains by Reinforced Insulation. (Agency approved power supplies)
- 24 Volts DC, 2 Amps, Regulated. (Consumes <45 Watts)
- 5 Volt DC (TTL) Disable Input. (also resets Heater Warm Up time)

Output Specifications

- Anode: 60-100 VDC / 30 Watt Max
- Trigger Pulse: 600±50 VPk Continuous (Anode VDC included)
- Heater Warm Up: 30 seconds
- Heater Voltages: Warm Up Volts DC (Factory Set Option)
Run Volts DC (Factory Set Option)

Environmental Specifications

- Temperature: 0 to 40°C
- Humidity: ≤ 95%
- Cooling: 20 CFM of forced air across the component side of the power supply board from any direction.

Mechanical Specifications

- Model 7700 and HC302 are mounted with a Standard Thread size of 6-32.
- Model M7628 is mounted with a Metric Thread size of M3.
- Model 7700 uses mate connector: Amp 640582-1 with eight female sockets: Amp 350550-1 or equiv.
- The Deuterium Lamp Power Supply is a component and should be mounted in a metal enclosure.

Safety – UL, TÜV and CE Guidelines

- Power Supply must be installed in such a way as to be inaccessible to the operator.
- Power Supply should be mounted in a metal enclosure.
- Power Sources must be an Isolated Secondary Source Insulated from AC Mains by Reinforced Insulation. (Agency approved power supplies)

Power Supply Connections

PIN #	FUNCTION	LAMP COLOR CODE (IN SOME CASES)
1	ANODE OUTPUT	RED
2	APERTURE OUTPUT	YELLOW (NOT USED ON 3 WIRE LAMPS)
3	HEATER OUTPUT	BLUE OR BLACK
4	HEATER RETURN (GND)	BLACK
5	+24VDC INPUT (SUPPLY)	N/A
6	+24VDC RETURN (GND)	N/A
7	+5VDC DISABLE INPUT	N/A
8	+5VDC RETURN (GND)	N/A