



HeNe Laser Power Supply Instructions

A\C Input (Edmund Optics P/N 11-379, 11-380, & 11-381)

Since 1969, Power Technology, Inc. has manufactured HeNe Laser Power Supplies for the scientific and industrial markets. The information provided below will help you install and operate these products. If you have any questions, please call your Edmund Optics Sales Engineers at 1-800-363-1992 (USA).

Operating Specifications

Edmund Optics P/N	Output Voltage (V)	Output Current (mA)	Input Voltage	Input Current (A)	Supported Tubes
11-379	1250	4	100/110/220 VAC	0.55 / 0.32	#62-714, #62-715, #62-716, #62-717
11-380	1700	4.9	100/110/220 VAC	0.55 / 0.32	#62-718, #62-719, #64-103, #64-104
11-381	3100	6.5	100/110/220 VAC	0.55 / 0.32	#62-726, #62-727

Mounting

Depending on the power supply, two or three 0.157" (4mm) diameter holes are provided for mounting purposes. Please mount the power supply to a flat surface using a number 6 (US) or M2 (metric) screw. Please use a flat washer under the head of the screw. This will spread the pressure and prevent cracking of the case. **Caution:** Do not over-tighten these screws. Cracked cases are not covered under manufacturer's warranty.

Mount the power supply to a surface that will conduct heat away from the power supply. Do not mount the power supply to a plastic or other insulating surface. Ensure that the operating environment does not exceed 60°C.

Wire Connections -

AC Mains (Brown, Blue and White Wires) for P/N 11-379 & 11-380 - The power supply may operate from 100-130VAC or 200-260VAC ($\pm 10\%$) at 50Hz or 60Hz. The connection to the AC line is different depending on the input voltage. For countries where 110/110 VAC is common, the Brown wire and the White wire may be connected to the AC power source. If operation from 230VAC line is required, please connect the Brown wire and the Blue wire to the AC power source. The remaining wire should always be insulated to prevent accidents. When using multiple power supplies in the same system, the unused wire should not be connected in parallel with other power supplies.

AC Mains (Yellow and White Wires) for P/N 11-381 - The power supply may operate from 100-130VAC or 200-260VAC ($\pm 10\%$) at 50Hz or 60Hz. The connection to the AC line is different depending on

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the input voltage. For countries where 110/110 VAC is common, the yellow wire and either of the white wires may be connected to the AC power source. If operation from 230VAC line is required, please connect the two white wires to the AC power source. The remaining wire should always be insulated to prevent accidents. When using multiple power supplies in the same system, the unused wire should not be connected in parallel with other power supplies.

High Voltage (Thick Red and Black Wire) - These power supplies are provided with an Alden Style connector (#8102-F). This connector is intended for application up to 10,000 Feet. Please insure complete insertion into the laser tube's mating female connector to prevent heating, arcing and coronal discharge.

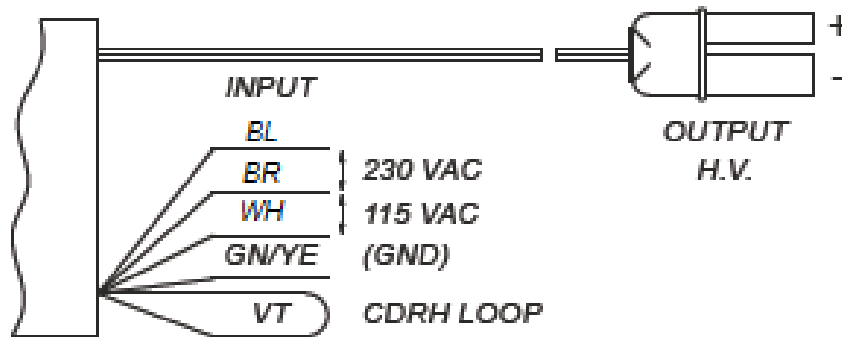
CDRH Delay (Violet Wire Loop) – These power supplies have a 1.5" violet wire loop. These power supplies will have a 3-5 second delay before the output is enabled. This delay can be disabled by cutting the violet loop. Although no harmful voltage is present when the wires are cut, they should be properly insulated to prevent accidents.

Ground (Green Wire) - Connect safety ground (i.e. A/C mains ground)

Safety Fusing – The power supply has internal safety fuses which prevent excessive current draw. If external fusing is desired, the "Slow Blow" fuse type is recommended. The following external fine-wire fuses are recommended:

230 VAC	300 mA (slow blowing)
115 VAC	600 mA (slow blowing)
100 VAC	800 mA (slow blowing)

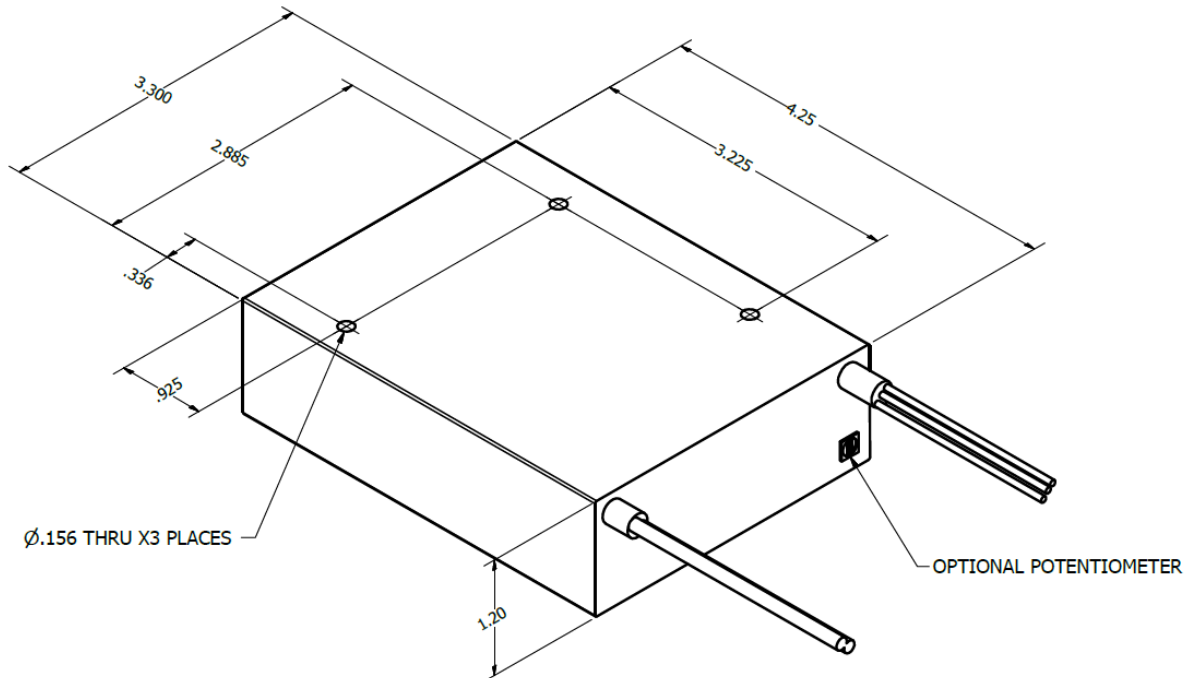
11-379 and 11-380 Hook Up Diagram:



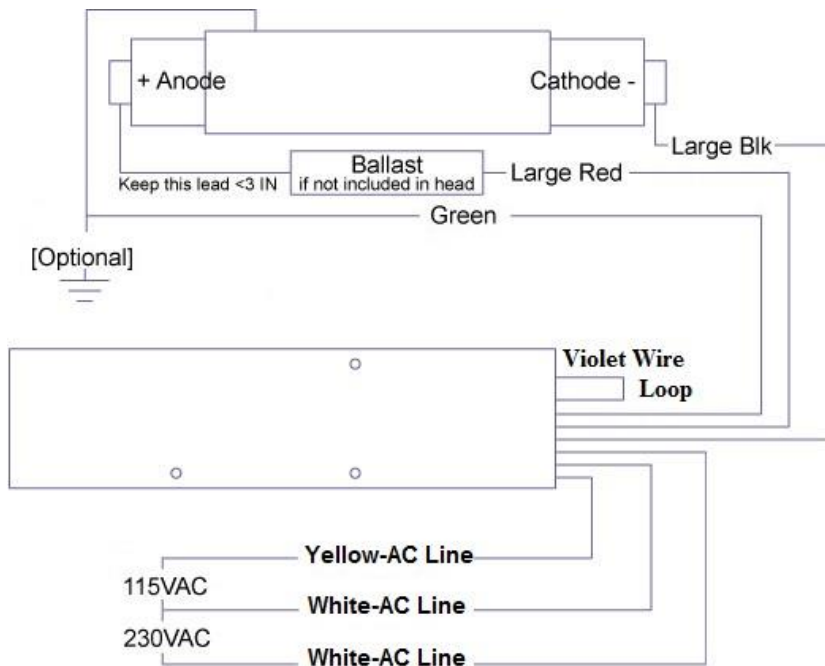
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11379 and 11380 Dimensional Drawing:



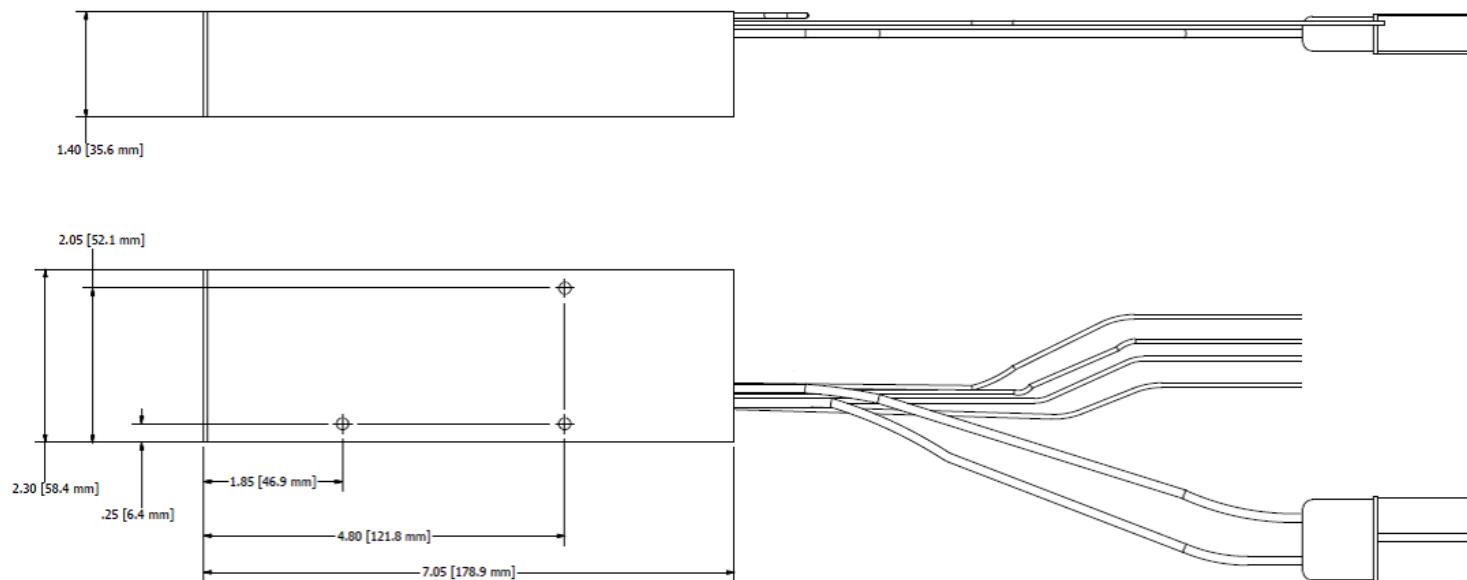
11-381 Hook Up Drawing:



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11-381 Dimensional Drawing:



This product is proudly manufactured in the USA by Power Technology, Inc.

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