

Power Supply

Model No. D2-005

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Please read [Limited Warranty](#) and [General Warnings and Cautions](#) prior to operating the D2-105.

Description

The Power Supply is a quiet, linear power supply providing +/-15V and 5V. It is in a separate box to isolate 60 Hz and EM interference. One power supply can power two complete laser systems, or four electronics modules.



Absolute Maximum Ratings

Note: All modules designed to be operated in laboratory environment

Parameter	Rating
Environmental Temperature	>15°C and <30°C
Environmental Humidity	<60%
Environmental Dew Points	<15°C

Specifications

		Units
Current Limit		
 </html> +15V	1.5	A
 </html> -15V	1.5	A
 </html> +5V	6	A
Output Regulation	0.05	%

Inputs, Outputs, and Controls

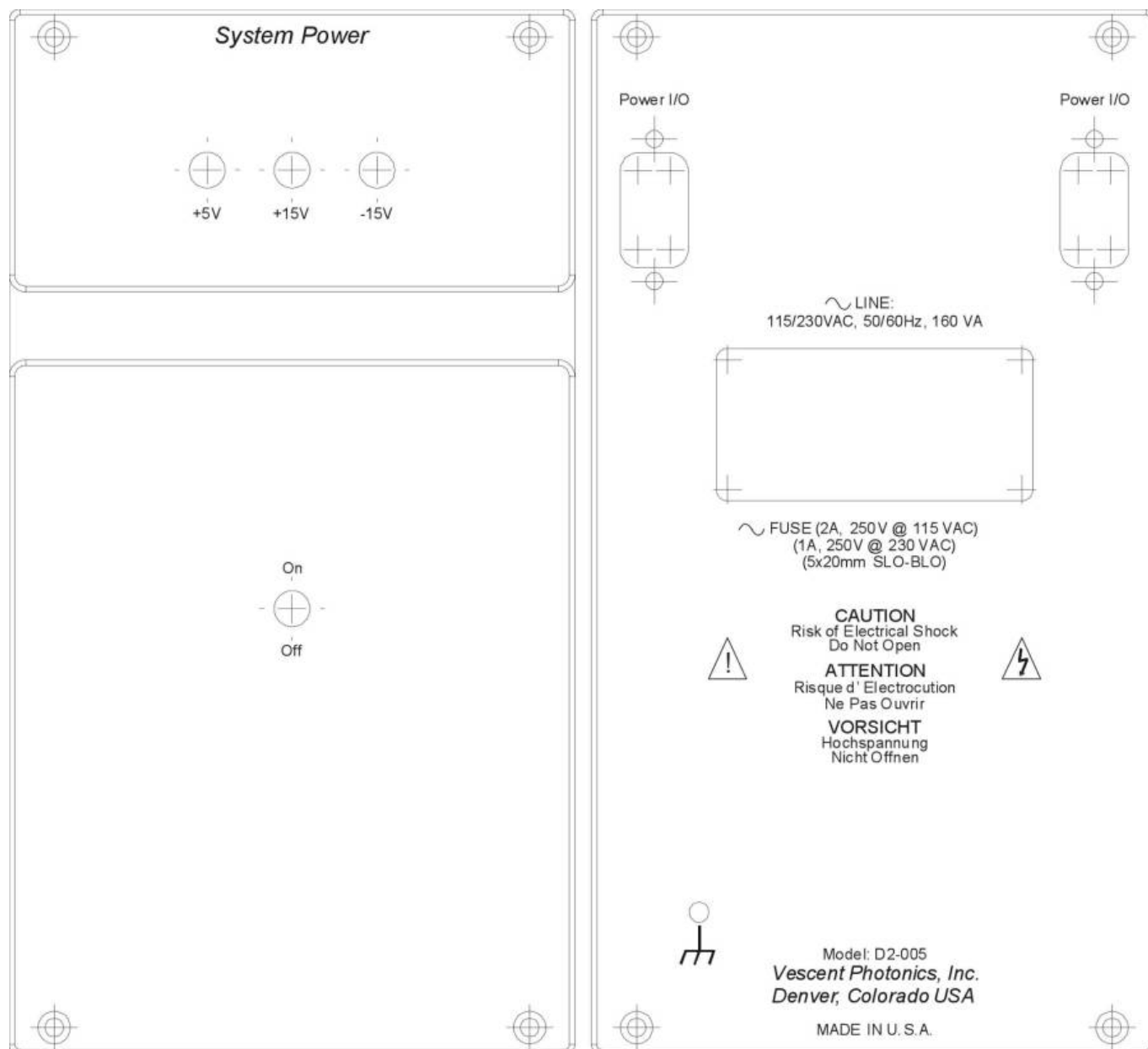


Fig. 1: Schematic drawing of the front and back panels of the D2-005

Monitor Section

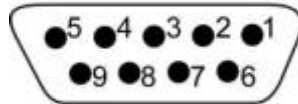
The monitor section contains three blue status LEDs indicating proper voltage on the +15, -15, and 5V power lines. In there is a voltage sag on any of the power lines, the blue status LED will turn off.

Back panel I/O

Power I/O (9-pin D-sub)

The power to each electronics module is through a 9-pin D-sub connector through a power bridge unit. The unit can also be powered through any serial cable with 9-pin D-sub connectors, which is convenient when the unit must be taken out of line for access to the side panels. The pin outs are shown in the following figure:

D-Sub Power Pin Out
(female connector drawn)



- 1 } 5 V return
- 2 }
- 3 no connection
- 4 } +/- 15 V return
- 5 }
- 6 } 5 Volts
- 7 }
- 8 -15 Volts
- 9 +15 Volts

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