

# Power Supply

Model No. D2-005

Document Revision: 1

Document Last Updated on 2021/08/26 14:26

Please read [Limited Warranty](#) and [General Warnings and Cautions](#) prior to operating the D2-005.

## 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
<b>Current Limit</b>		
&nbsp;&nbsp;&nbsp;<html> &nbsp;&nbsp;&nbsp;</html>+15V	1.5	A
&nbsp;&nbsp;&nbsp;<html> &nbsp;&nbsp;&nbsp;</html>-15V	1.5	A
&nbsp;&nbsp;&nbsp;<html> &nbsp;&nbsp;&nbsp;</html>+5V	6	A
<b>Output Regulation</b>	0.05	%

## Inputs, Outputs, and Controls

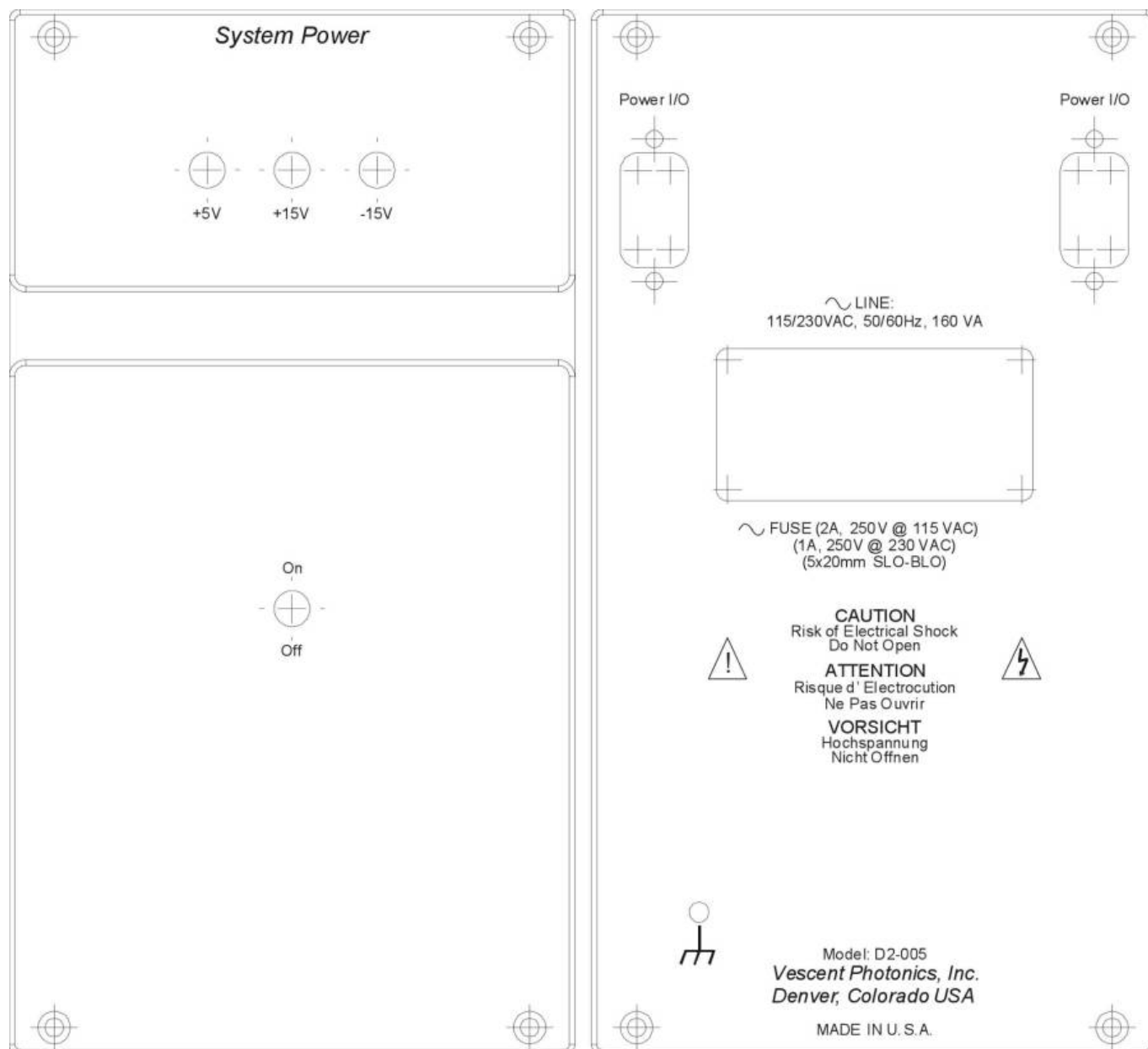


Fig. 1: Schematic drawing of the front and back panels of the D2-005

## Monitor Section

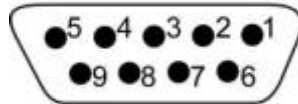
The monitor section contains three blue status LEDs indicating proper voltage on the +15, -15, and 5V power lines. If there is a voltage sag on any of the power lines, the blue status LED will turn off.

## 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

From:

<https://www.vescent.com/manuals/> - **Product Manuals**

Permanent link:

[https://www.vescent.com/manuals/doku.php?id=d2:power\\_supply&rev=1382463106](https://www.vescent.com/manuals/doku.php?id=d2:power_supply&rev=1382463106)

Last update: **2021/08/26 14:26**

