

# LPS 4500 Watt Power Supplies



## Features:

- Constant Current or Voltage
- 4500 watts maximum output
- 200 to 240VAC single phase
- Output voltage to 200V
- Output current to 200 amps

The LPS 4500 power supplies are designed for various applications in semiconductor equipment along with driving laser diodes, OEM and industrial applications. Available for use in constant current or constant voltage applications. The LPS series is a compact reliable power source that can be customized to your requirements.

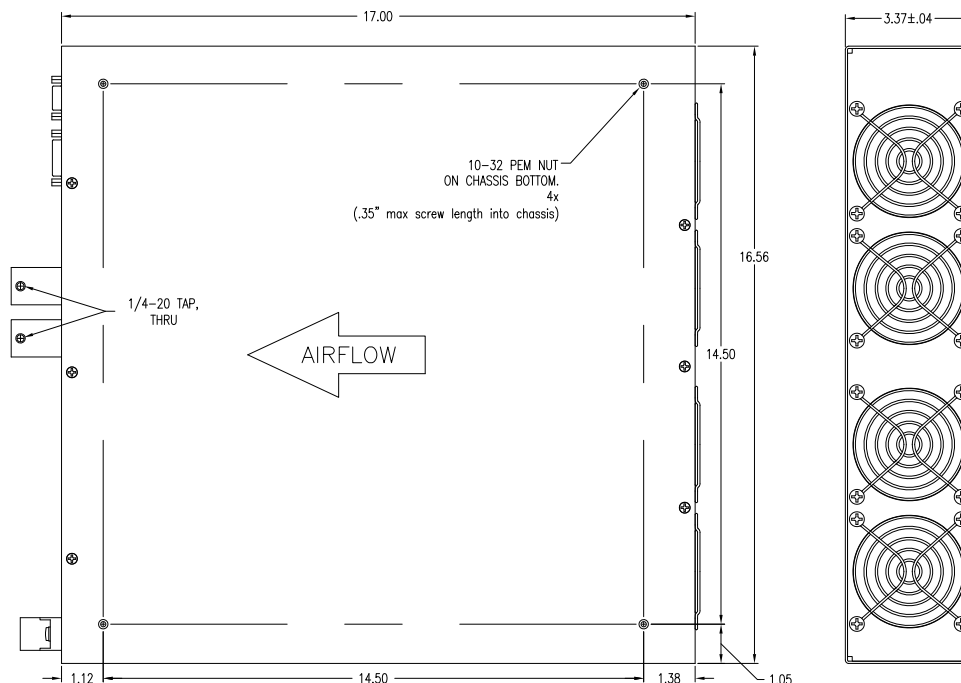
## Specifications

<i>Input Characteristics</i>	
Input Voltage	200 to 240VAC $\pm$ 10% 47 to 63 Hz. single phase
Efficiency	> 85%
Power Factor	> .98
Leakage Current	1mA
<i>Output Characteristics</i>	
Output Voltage	5 to 200 volts
Output Current	200 amps (not to exceed wattage rating)
Ripple	0.5%
Line Regulation	0.5%
Load Regulation	0.5%
Temperature Drift	0.5% over temperature range after 30 minute warm-up
Overshoot	<1%
Power Limit	Limited to maximum power with power fold-back circuit
Rise/Fall Time	2 to 20ms, output voltage dependent
<i>Protection</i>	
OverTemperature	unit will shut down when heatsink temp exceed 75° C
Over Voltage	105% of rated voltage
Over Current	105% of rated current
<i>Environmental</i>	
Operating Temperature	0 to 40° C
Storage Teperature	-20 to 85°C
Humidity	0 to 90% non-condensing
Cooling	Forced Air



## ±LPS Interface (15 Pin D-sub Female)

Pin #	Pin Name	Functional Voltage Level	Description
1	Enable (input)	High = RUN = +5V to +15V Low = OFF = 0V	The Enable function turns the output section of the power supply ON and OFF. When the power supply is enabled, current is delivered to load as programmed via Iprogram(+), Pin 7. Rise times resulting from Enable are approximately 25msec.
2	V Program (input)	0 to 10V = 0 to full voltage	The power supply output voltage is set by applying a 0-10V analog signal to Vprogram(+). <b>Note: Accuracy will be compromised when operating below 30% of the maximum value</b>
3	Interlock (input)	Open = OFF Connect to GND = RUN	The Interlock function can be connected to external interlock switches such as door or overtemp switches.
4	GND		Referred to (-) output of power supply.
5	Vout Monitor: (output)	0 – 10V = 0 – Voutmax*	The output voltage of the supply can be monitored by Vout Monitor.
6	Iout Monitor (output)	0 – 10V = 0 – Ioutmax	The output current of the supply can be monitored by Iout Monitor.
7	Iprogram: (input)	0 – 10V = 0 – Ioutmax	The power supply output current is set by applying a 0-10V analog signal to Iprogram(+). <b>Note: Accuracy will be compromised when operating below 30% of the maximum value</b>
8	N/C	Do not use	
9	GND		Referred to (-) output of the power supply.
10,11	+5V @ 0.2A (output)		Auxiliary +5V power supply for user. Up to 0.5A output current capability.
12	-15V @0.2A (output)		Auxiliary -15V power supply for user. Up to 0.5A output current available.
13,14	+15V @0.2A (output)		Auxiliary +15V power supply for user. Up to 0.5A output current available.
15	Gnd		Referred to (-) output of the power supply.



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