

# 500W & 1000W ADJUSTABLE LABORATORY POWER SUPPLY

## LPS 500 & LPS 1000 SERIES

- Modular concept
- Adjustable output 0-60VDC
- Adjustable voltage and current limits
- Up to 1000W of regulated output power
- Full electronic protection
- Field-proven design topology
- Current and Volt meters
- Input breaker
- Custom output ranges available



The LPS Series of power supplies provides either 500W or 1000W with an adjustable output of 0-60VDC. The current limit can be independently adjusted. The output voltage and current are displayed on an easy-to-read analogue display. The design also features high efficiency and low output noise. The power supply is fully protected and highly rugged. The use of professional quality components and rigorous quality control results in an MTBF exceeding 100,000 hours at 45°C. We have used the basic design for many years at ABSOPULSE in Production and Engineering and it has an impressive reliability record. However, as commonly known, laboratory power supplies are often subjected to significant abuse in engineering departments. The modular concept lends itself to on-site repair. The failed module can easily be located, replaced and returned to the factory for repair.

### SPECIFICATIONS

**Input Voltage**

115/230VAC +/- 15%  
47 - 63Hz  
Auto-ranging available

**Input Protection**

Thermal fuse (internal)  
Inrush current limiting  
Input breaker

**Input Isolation**

2250VDC input to chassis  
4300VDC input to output,  
8mm spacing  
500VDC output to chassis

Full compliance to IEC950, CSA  
22-2-950 and UL 1950

**Output Voltages**

Standard output voltage range is  
0...60VDC/18A max  
Consult factory for other voltage  
ranges

Output power is limited to 500W  
on LPS500 and 1000W on LPS  
1000.

**Line/Load Regulation**

+/-1% combined

**Output Overvoltage Protection**

30 or 62V selectable, trips AC  
breaker

**Overload Protection**

Current limiting with short circuit  
protection  
Self-resetting thermostat for  
thermal protection

**Efficiency**

Min 80% at full load

**RFI Suppression**

EN 55022 Class B  
conducted emissions

**Output Ripple/Noise**

Better than 1% of output voltage  
peak to peak or 0.2% RMS of the  
output voltage (20HZ BW)

**Operating Temperature**

0 to +50°C

**Temperature Drift**

0.03% per °C over operating  
temperature range

**Dimensions**

LPS 500: 7" x 15" deep x 10"  
LPS 1000: 7" x 15" deep x 19"

**Connections:**

Input: IEC320 socket  
Output: banana sockets

**Warranty**

Twelve months subject to  
application within good  
engineering practice

Enhancements to these general specifications and customizing can be accommodated upon request  
Designed to meet all approval requirements

**Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems  
and DC-input fluorescent lamp inverters since 1982. Custom or standard.  
Absopulse is a BABT-approved Facility**

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