

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 can be accommodated upon request. Specifications subject to change.

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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