

# 1000W ADJUSTABLE LABORATORY POWER SUPPLY

## LPS k-100 SERIES

- Modular concept
- Adjustable output 0-100VDC at 10A max
- Adjustable voltage
- 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 k-100 series laboratory power supply has an adjustable output of 0-100VDC at 10A and delivers 1000W of regulated output power. Separate output voltage and current meters, output voltage adjustment potentiometer, ON/OFF switch for AC-input, and power-on indicator LED are located on the front-panel. The use of professional quality components and rigorous quality control results in an MTBF exceeding 100,000 hours at 45°C. The LPS k-100 basic design has been used in various configurations in Absopulse's production and engineering departments for many years. The modular construction of this power supply lends itself to easy on-site maintenance as modules can easily be accessed and replaced.

### SPECIFICATIONS

**Input Voltage**  
120VAC (97-132VAC range)  
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

Designed to meet IEC950, CSA  
22-2-950 and UL 1950

**Output Voltages**  
0...100VDC/10A max

**EMI**  
EN 55022 Class B  
conducted emissions

**Line/Load Regulation**  
±/-1% combined

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

**Efficiency**  
Min 80% at full load

**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**  
4U x 19" x 16"

**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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