

1500W, Rugged Industrial Quality Variable Output Power Supply

LPS 1500 Series



- Power factor corrected input
- Rugged industrial quality
- Current and Voltmeters
- Bench-top or 19" Rack mount
- Custom output ranges available
- Full electronic protection

The LPS 1500 Series rugged, industrial quality, variable output ac/dc power supply with PFC input delivers up to 1500W output power. The design utilizes two field proven internal modules, the PFQ1500 and KFB 1500. Versions for standard output ranges of 14-37V (24V), 28-74V (48V) or 60-160V (125V) are available with short delivery times. The output voltage adjustment potentiometer knob is located on front panel of the unit. Other output voltages and adjustment ranges are available on request. Output voltage and current are displayed on analog meters on the front panel of the unit. Binding post terminals for the output are also located on the front-panel. An output "ON" condition is indicated by a green LED located on the front-panel. The AC input is equipped with an input breaker, which is also used as an ON/OFF switch. Cooling is by high quality internal fans, which provide sufficient airflow for operation at the specified temperature range without de-rating. Full electronic protection, low component count, large design headroom and the use of components with established reliability result in a high MTBF. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

<p>Input Voltage 95V - 264V universal Max input current: 20A max. Power Factor is better than 0.97 at full load for the entire input range. Meets EN61000-3-2 Consult factory for other inputs</p> <p>Input Protection Inrush current limiting Internal safety fuse Input breaker 30A, used also as ON/OFF switch Lower voltage than the specified minimum input will not damage the unit</p> <p>Isolation 2250Vdc input to chassis 4300Vdc input to output 8mm spacing 1000Vdc input to output</p> <p>Standards Designed to meet EN 60950 and corresponding UL and CSA standards</p> <p>EMI EN 55022 Class A with margins</p> <p>Switching Frequency Input section: 100kHz ± 10kHz Output section: 55kHz ± 3kHz</p>	<p>Output Voltage 24V (14-37V adj. range) 40A max or 48V (28-74V adj. range) 20A max or 125V (60-160V adj. range) 9A max. Output adjustable by knob on front panel. Output is floating either terminal can be grounded or several units can be connected in series for higher voltage Consult factory for other output requirements</p> <p>Redundancy Diode None</p> <p>Line/Load Regulation ±1% combined from no load to full load</p> <p>Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p> <p>Output Ripple/Noise Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20HZ BW)</p> <p>Output Overload Protection Rectangular current limiting with short-circuit protection. Thermal shutdown in case of insufficient cooling (self-resetting)</p> <p>Output Overvoltage Protection Second regulator loop</p>	<p>Efficiency Output voltage dependent Typically 80% at full load</p> <p>Operating Temperature 0°C to 50°C for full specification Extended temperature range available</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling By built-in high quality fans</p> <p>Environmental Protection Basic ruggedizing</p> <p>Shock/Vibration IEC 61373 Cat 1 A&B</p> <p>Humidity 5-95% non-condensing</p> <p>MTBF 100,000 hours @ 45°C Demonstrated MTBF is significantly higher</p>	<p>Indicators Output ON LED (green) Analog output voltage and current meters on front panel</p> <p>Control Input Front-panel adjustments: Potentiometer with knob on the front panel</p> <p>Alarm Output None</p> <p>Dimensions (H x W x D) 4U (178 mm) x 381 x 188mm 4U (7") x 15" x 7.4" 19" Rack mountable version is also available</p> <p>Weight Approx 6 kg (13 lbs)</p> <p>Connections Input: Fixed line cord Output: Binding posts on the front panel</p> <p>RoHS Compliance Fully compliant</p> <p>Warranty Two years subject to application within good engineering practice</p>
--	--	---	--

Enhancements to these general specifications and customizing can be accommodated upon request. Specifications are 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



ABSOPULSE ELECTRONICS LTD
110 Walgreen Road
Ottawa, Ontario. K0A 1L0. CANADA
Tel: +1-613-836-3511 | Fax: +1-613-836-7488
E-mail: absopulse@absopulse.com
<http://www.absopulse.com>