

300W, Rugged Industrial Quality Variable Output Power Supply LPS 300-A/270



- Rugged industrial quality
- Current and Voltmeters
- Bench-top
- Custom output ranges available
- Full electronic protection

This versatile, industrial quality, laboratory power supply is specifically designed for applications that require full output range adjustability. It is suitable for product testing and similar purposes in engineering labs or in the field. The unit is built with two field-proven internal modules, the HBC 65 and BUR 300, which provide an output range of 0V-270Vdc. Output voltage and current are displayed on analog meters on the front panel of the unit. The output voltage is adjustable by an adjustment potentiometer knob which is located on front panel of the unit. Adjustment by analog control voltage is available on request. Output terminals are also located on the front-panel. Cooling is by natural air convection, which ensures 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. ABSOPULSE has a broad range of laboratory power supply designs up to kilowatts that can be adapted to customer requirements with lead times of only a few weeks.

SPECIFICATIONS

<p>Input Voltage 115Vac nominal 95-132Vac operating range Input current: 5.6Arms max Consult factory for other inputs</p> <p>Input Protection Inrush current limiting Internal safety fuse Input 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 1500Vdc input to output</p> <p>Standards Designed to meet EN 60950-1 and corresponding UL and CSA standards</p> <p>EMI EN 55032 Class A with margins</p> <p>Switching Frequency 55kHz \pm3kHz</p>	<p>Output Voltage 0V-270V/1.1A max Output adjustable by knob on front panel or by analog control voltage Output is floating; either terminal can be grounded or 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 \pm1.5% combined from zero 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 200mVrms and 900mVpp (20MHz BW)</p> <p>Output Overload Protection Rectangular current limiting with short-circuit protection. Thermal shutdown in case of insufficient cooling (self-resetting) Current Limit: 1.2A \pm0.1A</p> <p>Output Overvoltage Protection Second regulator loop set at: 300V \pm20V</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 natural air convection</p> <p>Environmental Protection Basic ruggedizing Conformal coating</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 Power 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 (Electronic control by analog control voltage upon request).</p> <p>Alarm Output None</p> <p>Dimensions (H x W x D) 141 x 132 x 401 mm 5.56" x 5.2" x 15.8" Dimensions include rubber feet and terminals</p> <p>Weight Approx 3 kg (6.6 lbs)</p> <p>Connections Input: IEC 320 inlet Output: Binding posts on the front panel</p> <p>RoHS Compliance Compliant</p> <p>Warranty Two years subject to application within good engineering practice</p>
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ABSOPULSE power supplies are designed and built to customer requirements. The specifications on this data sheet are generic guidelines only and are subject to change.

OEM of industrial and railway quality DC-DC converters, AC-DC power supplies and battery chargers, DC-AC sine-wave inverters, phase and frequency converters, DC-output UPS systems and complete power systems in 19" and 23" racks since 1982. Custom or standard. ABSOPULSE is a BABT-approved Facility.



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