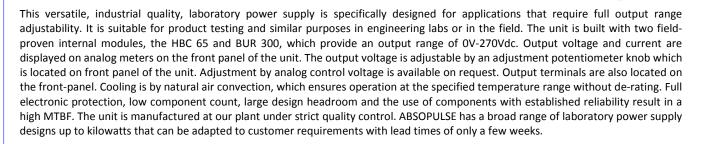
300W, Rugged Industrial Quality Variable Output Power Supply LPS 300-A/270

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



SPECIFICATIONS

Input Voltage

115Vac nominal 95-132Vac operating range Input current: 5.6Arms max Consult factory for other inputs

Input Protection

Inrush current limiting
Internal safety fuse
Input ON/OFF switch
Lower voltage than the specified
minimum input will not damage
the unit

Isolation

2250Vdc input to chassis 4300Vdc input to output 8mm spacing 1500Vdc input to output

Standards

Designed to meet EN 60950-1 and corresponding UL and CSA standards

FMI

EN 55032 Class A with margins

Switching Frequency 55kHz ±3kHz

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

Redundancy Diode

None

Line/Load Regulation

±1.5% combined from zero load to full load

Dynamic Response

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

Output Ripple/Noise

Better than 200mVrms and 900mVpp (20MHz BW)

Output Overload Protection

Rectangular current limiting with short-circuit protection.
Thermal shutdown in case of insufficient cooling (self-resetting)
Current Limit: 1.2A ±0.1A

Output Overvoltage Protection

Second regulator loop set at: 300V ±20V

Efficiency

Output voltage dependent Typically 80% at full load

Operating Temperature

0°C to 50°C for full specification Extended temperature range available

Temperature Drift

0.03% per °C over operating temperature range

Cooling

By natural air convection

Environmental Protection

Basic ruggedizing Conformal coating

Shock/Vibration IEC 61373 Cat 1 A&B

Humidity

5-95% non-condensing

MTBF

100,000 hours @ 45°C Demonstrated MTBF is significantly higher

Indicators

Power ON LED (green) Analog output voltage and current meters on front panel

Control Input

Front-panel adjustments: Potentiometer with knob on the front panel (Electronic control by analog control voltage upon request).

Alarm Output

None

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

Weight

Approx 3 kg (6.6 lbs)

Connections

Input: IEC 320 inlet

Output: Binding posts on the front

panel

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

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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