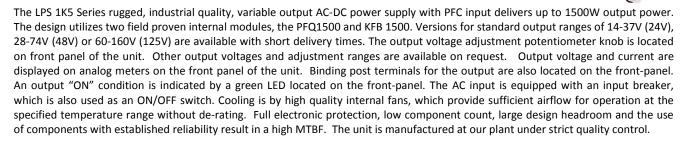
# 1500W, Rugged Industrial Quality Variable Output Power Supply with PFC-input LPS 1K5 Series

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



## **SPECIFICATIONS**

## **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

#### **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

# Isolation

2250Vdc input to chassis 4300Vdc input to output 8mm spacing 1000Vdc input to output

## Standards

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

#### EMI

EN 55032 Class A with margins

# **Switching Frequency**

Input section: 100kHz ± 10kHz Output section: 55kHz ± 3kHz

# **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 connected in series for higher voltage Consult factory for other output requirements

# **Redundancy Diode**

None

# **Line/Load Regulation**

±1% combined from no 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 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20HZ BW)

# **Output Overload Protection**

Rectangular current limiting with short-circuit protection.
Thermal shutdown in case of insufficient cooling (self-resetting)

#### **Output Overvoltage Protection**

Second regulator loop

# Efficienc

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 built-in high quality fans

# **Environmental Protection**

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

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

#### **Control Input**

Front-panel adjustments: Potentiometer with knob on the front panel

#### **Alarm Output**

None

# Dimensions (H x W x D)

3U (133 mm) x 381 x 188mm 3U (5.25") x 15" x 7.4" 19" Rack mountable version is also available

#### Weight

Approx 6 kg (13 lbs)

#### Connections

Input: Fixed line cord
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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