

# 1500W POWER SUPPLY IN 5" X 5" X 12" PACKAGE

## INDUSTRIAL QUALITY

### BAP 1500 SERIES

- Competitive price
- Stock or short delivery
- Compact size
- Full electronic protection
- Made in North America
- Industrial quality
- Field-proven design topology



The BAP 1500 Series is a compact DC/DC converter which uses established design techniques to deliver 1500W output power, depending on the input/output configuration. A wide selection of input and output voltages are available off-the-shelf or with short lead times. Suitable for a wide range of applications, the BAP 1500 features full electronic protection, high efficiency and low output noise. The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature. Options include extended operating temperature and N+1 redundancy.

#### SPECIFICATIONS

**Input Voltage**

21-30VDC and 42-60VDC ranges standard. Other inputs upon request

**Input Protection**

Thermal fuse  
Inrush current limiting

**Input Isolation/Safety**

1000VDC input to chassis  
1000VDC input to output  
500VDC output to chassis  
  
Full compliance to IEC950, CSA 22-2-950 and UL 1950

**EMI**

Meets EN 55022 Class A as a minimum

**Output Voltages**

12V/120A; 24V/60A; 36V/40A; 48V/30A; 72V/20A; 96V/15A or 120V/12A are standard  
Consult factory for other voltages and output currents

**Efficiency**

Input voltage dependent  
Typically 80% at full load

**Line/Load Regulation**

± 1% combined  
Tighter regulated versions with sensing available

**Output Overvoltage Protection**

Double regulator loop

**Overload Protection**

Rectangular current limiting with short circuit protection  
Thermal shutdown with automatic reset in case of insufficient airflow

**Output Ripple/Noise**

Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)  
Audio band noise: max. 32dBmC

**Cooling**

Built-in fan

**Operating Temperature**

0°C to +50°C

**Temperature Drift**

0.03% per °C over operating temperature range

**Environmental Protection**

Basic ruggedizing

**Dimensions**

5" x 5" x 12" enclosed case  
Can be mounted on a 3U x19" panel for rack mount applications

**Connections**

Copper studs with nuts or terminal block

**Options**

According to customer request

**Warranty:** Twelve months subject to application within good engineering practice  
Enhancements to these general specifications can be accommodated upon request  
Designed to meet common approval requirements. 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 BAPT-approved Facility**



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