

# HBC1200 SERIES

## 1200W POWER SUPPLY IN 5" X 5" X 12" PACKAGE

- Compact size
- Adjustable output
- Up to 1200W of output power
- Full electronic protection
- Telecom quality
- Field-proven design topology



The HBC1200 Series is a highly compact AC/DC converter which uses established design techniques to ensure high reliability. Standard outputs for 115VAC input are 24V/50A; 48V/25A. Suitable for a wide range of applications, the HBC1200 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 (-40 to +65°C) and N+1 redundancy. The power factor corrected version is also available - PFC1500 Series.

### SPECIFICATIONS

#### **Input Voltage**

115/230VAC +/-15%  
switch selectable  
47 - 63Hz

#### **Input Protection**

Thermal fuse  
Inrush current limiting

#### **Input Isolation/Safety**

2250VDC input to chassis  
4300VDC input to output  
8mm spacing  
500VDC output to chassis

Full compliance to IEC950,  
CSA 22-2-950 and UL 1950  
Please consult factory for approval  
status for the requested  
input/output configuration

#### **Output Voltages**

24V/50A & 48V/25A; standard  
Consult factory for other voltages

#### **Efficiency**

Min 80% at full load

#### **Line/Load Regulation**

+/-1% combined

Tighter regulated versions  
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

#### **RFI Suppression**

Meets FCC 20780 Class A  
and EN 55022 Class A  
conducted emissions

#### **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. 32dBnC

#### **Hold Up Time**

Minimum 10ms at full load for 5%  
drop of output voltage

**+Operating Temperature**  
0°C to +50°C

**Temperature Drift**  
0.03% per °C over operating  
temperature range

**Dimensions**  
5" x 5" x 12" enclosed case  
Weight: 11 lb. (5kg).

**Connections**  
Screw-type terminal block

**Output Fail Alarm**  
CE opto-coupler output  
(normal operation: low)  
Relay contacts optional

**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

**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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