

## 800W, Rugged Industrial Quality AC/DC Fan Cooled Power Supply HBC 800 Series



- Rugged industrial quality
- Single regulated and adjustable output
- Cooling by built-in fans
- Full electronic protection
- Field-proven design
- N+1 redundancy available

This rugged, industrial quality AC/DC power supply uses field-proven technology to generate the required output power. It is a mature design with a track record in numerous applications. Cooling is by built-in fans, with additional conduction via the baseplate. Full electronic protection, low component count, large design headrooms, and the use of components with established reliability result in a high MTBF. This unit is manufactured at our plant under strict quality control.

### SPECIFICATIONS

#### Input Voltage

115/230Vac +/- 15%  
47 - 63Hz  
Voltage selection by internal jumper

#### Input Protection

Inrush current limiting  
Varistor  
Internal safety fuse  
Lower voltage than the specified minimum input will not damage the unit

#### Isolation

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

#### Standards

EN60950 and corresponding  
UL and CSA standards

#### EMI

EN55022 Class A with margins

#### Switching Frequency

55 KHz +/-3KHz

#### Hold Up Time

Min. 5ms at any input for 5% drop  
in output voltage

#### Output Voltage/Current

12Vdc/65A, 24Vdc/33A, 48Vdc/17A  
are standard.  
Consult factory for other voltages

#### Redundancy Diode

Optional

#### Line/Load Regulation

+/- 1% 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

Less than 1% of output voltage  
peak to peak or 0.2% RMS of the  
output voltage (20MHz BW)

#### Output Overload Protection

Rectangular current limiting with  
short-circuit protection (no hiccup)  
Thermal shutdown in case of  
insufficient cooling (self resetting)

#### Output Overvoltage Protection

Double regulator loop completely  
stable and independent of main  
loop

#### Efficiency

Output voltage dependent.  
Typically 80% at full load

#### Operating Temperature Range

0 to +50 °C for full specification  
without derating.  
Extended temperature range  
available on request

#### Temperature Drift

0.03% per °C over operating  
temperature range

#### Cooling

Forced air by built-in fans and  
additional cooling via base plate

#### Environmental Protection

Basic ruggedizing  
Optional conformal coating and  
heavy ruggedizing

#### Humidity

5 – 95% non-condensing

#### MTBF

150,000 hours @ 45 °C  
Demonstrated MTBF is significantly  
higher

#### Indicators

None

#### Control Input

None

#### Alarm Output

None  
Available as option

#### Package / Dimensions (WxHxD)

U5512: 127 x 127 x 316 mm  
(5" x 5" x 12.5") including fans,  
mounting flanges and terminals

#### Weight

5.2 kg (11.5 lb)

#### Connections

Terminal blocks

#### RoHS Compliance

Fully compliant

#### Warranty

Two years subject to application  
within good engineering practice

**Enhancements to these general specifications and customizing can be accommodated upon request. Specifications 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 BABT-approved Facility.*



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