

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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