

750W, Rugged AC/DC Fan Cooled Power Supply HBC 319F-FT SERIES

- Industrial quality
- Single regulated and adjustable output
- Fan cooling
- Full electronic protection
- Field-proven design
- N+1 redundancy available



The HBC319F Series AC/DC power supply uses a high frequency topology with many years of field proven reliability. It generates 750W output power with built-in fan cooling and additional conduction cooling. Standard output voltages from 24V to 125VDC are available. The chassis mount design features low component count and high efficiency. The use of high quality components and rigorous quality control results in a long operating life.

SPECIFICATIONS

Input Voltage

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

Input Protection

Inrush current limiting
Varistors
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

Designed to meet EN60950 and corresponding UL and CSA standards

EMI

Meets EN 55022 Class B

Switching Frequency

55KHz +/- 3KHz

Hold Up Time

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

Output Voltages

24VDC/31A and 48VDC/16A
125V/6A standard
Consult factory for other voltages

Redundancy Diode

Optional

Line/Load Regulation

+/-1% combined from no load to full load

Dynamic Response

Max 5% voltage deviation for 10% to 50% load stop, 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 (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

0 to +50°C at full power without derating
Extended temperature range available

Temperature Drift

0.03% per °C over operating temperature range

Cooling

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

Environmental Protection

Basic ruggedizing
Optional conformal coating

Humidity

5 – 95% non-condensing

MTBF

180,000 at 45°C (fans not included). Demonstrated MTBF over one million hours

Indicators

None on standard version

Control Input

None

Alarm Output

None on standard version
Available as option

Dimensions

FF4: 151 x 67 x 351mm
(6" x 2.6" x 13.8")
incl. mounting flanges & terminals

Weight

2.5kg (5.3 lbs.)

Connections

12 pole barrier type terminal block with 3/8" spacing

RoHS Compliance

Fully compliant

Warranty

Twelve months 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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