

Model: HBC 319-125FTND (Standard ND Stock)
OSD No.: 1562 0595SPND **COSD:** V043
Summary description: **500W Single Output, Power Supply,**
 125V/ 4A Output



Product description:

This power converter is a rugged industrial quality unit which uses field proven topology. It is a mature design with an excellent track record in hundreds of applications. The design headrooms are large. It is cooled by conduction by installing the unit on a heatsinking surface and by natural convection. This chassis-mount design is optimized for low component count and high efficiency. The use of components with established reliability results in a high MTBF. The unit is manufactured at our plant under strict quality control. Customized versions are available.

Special Features: These stock units are individually packed and ready for immediate delivery

SPECIFICATIONS

Input Voltage

115/230Vac, +/- 15%, 47-63Hz
 Selectable by internal jumper
 Input Current 10Arms max.

Input Protection

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

Input Isolation/Safety

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

Standards

Designed to meet EN60950 and corresponding CSA and UL standards
 Meets requirements for CE marking

EMI

EN55022 Class A with large headrooms

Hold Up Time

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

Switching Frequency

55kHz +/-3kHz

Output Voltage/Current

125V/4A continuous
 Adjustable 108V-130V
 Output is floating, either terminal can be grounded

Redundancy diode

Installed internally

Line/Load Regulation

+ 1% combined from zero load to full load including redundancy diode

Dynamic Response

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

Output Ripple/Noise

Better than 100mVrms or 500mVpp (20MHz BW)

Output Overload Protection

Current limiting with short circuit protection (No hiccup)
 Self-resetting thermostat for thermal protection
 Current Limit: 4.5A +/-0.4A

Output Overvoltage Protection

Double regulator loop
 OVP setting: 140V +/-5V

Efficiency

Min. 85% at full load

Operating Temperature Range

-20°C to +50°C for full specification

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Conduction by installing unit on heat-sinking surface (chassis or cabinet wall) and convection via cooling slots

Environmental Protection

Basic ruggedizing

Shock/Vibration

Not potted: IEC 61373 Cat 1 A as minimum

Humidity

5 – 95% non-condensing

MTBF

110,000 hours @45°C
 Demonstrated MTBF is significantly higher

Indicators

Green “Output ON” LED visible through the cooling slots

Control Input

None

Alarm Output

Form C contacts for output failure

Package / Dimensions (WxHxL)

F4: 129 x 63.5 x 355 mm (5.1” x 2.5”x 14”)
 Mounting holes are clear

Weight

2.2kg (4.9 lbs)

Connections

Barrier-type terminal block with 3/8” spacing, 12 poles

RoHS Compliance

Fully compliant

Warranty

Two years subject to application within good engineering practice

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