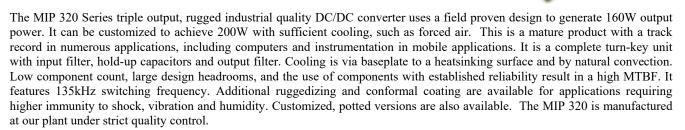
160W, Rugged, Triple Output, Ultra-compact, Industrial DC/DC Converter **MIP 320-FT Series**

- Rugged industrial quality
- Triple output
- Conduction/convection cooled
- Full electronic protection
- Field-proven design
- Cost optimized



SPECIFICATIONS

Input Voltage

12Vdc, 24Vdc, 36Vdc or 48Vdc standard Consult factory for other voltages

Input Protection

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

Isolation

Depends on the required input/output configuration. At a minimum: 500VDC input to chassis, 500VDC input to output, 500VDC output to chassis

Standards

Designed to meet EN 60950 and corresponding UL and CSA standards

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Each version meets the requirements of EN55022 Class A with margins

Switching Frequency 135kHz +/- 5kHz

Output Voltage/Current

5.1V/10 and 12V/5A, -12V/1A are standard Consult factory for other voltages

Redundancy Diode

None on this series

Line/Load Regulation

+/- 1% combined from no 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

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

Output Overload Protection

Current limiting with short circuit protection (hiccup mode)

Output Overvoltage Protection

Double regulator loop and transzorb clamp

Efficiency

Output voltage dependent. Typically 80% at full load

Operating Temperature Range 0 to +50°C. Higher rating depends

on available conduction and convection.

Temperature Drift

0.03% per °C over operating tempera range

Cooling

Conduction to customer heatsink or chassis and natural convection

Environmental Protection

Basic ruggedizing Conformal coating as option

Humidity

5 - 95% non-condensing

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

Indicators

None on standard version

Control Input

Alarm Output

Packaging/Dimensions/Weight PCB Size: 4.2" x 7.0" Component height: 1.2"

Weight

Approx: 0.4 kg (0.9 lb)

Connections

Header pins with 0.156" spacing

RoHS Compliance

Fully compliant

Warranty

Two years subject to application within good engineering practice

