

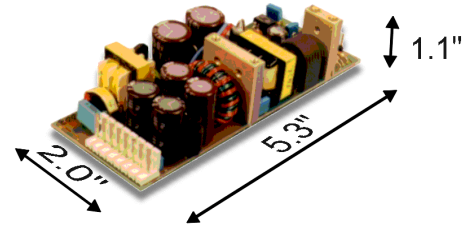
150W ULTRA COMPACT DC/DC CONVERTER

MIP 150 SERIES

- Field proven design
- Very high quality
- Competitive price
- Meets EMI EN 55022 Class A
- Conduction cooled - no fan
- Single output
- Fully protected
- Stock or short delivery



Completely stand-alone - no external components required
Potted versions available



This field-proven DC/DC converter is a complete turn-key unit including input filter, hold-up capacitors and output filter. The size of the unit is remarkably compact given its 150W capability. Features include 160 KHz switching frequency, low component count, high efficiency and reliability. All power devices are conduction cooled making the unit suitable for application in severe environmental conditions. Customized potted versions typically required for heavy-duty industrial or military type applications, are available. This series is also suitable for building complex, multi-output DC/DC systems with virtually no NRE cost. A range of hardware for mounting the converters for different system applications already exists.

SPECIFICATIONS

Input Voltage

36V, 48V, 72V, 125VDC standard
Other voltages upon request

Input Protection

Thermal Fuse
Inrush current limiting

Input Isolation

500VDC input to chassis and
input to output
500VDC output to chassis

Output Voltages

24V/6.25A, 36V/4.1A,
48V/3.12A, 72V/2.1A
are standard
Consult factory for other voltages

Efficiency

Depending on input/output
configuration: 80%-95%

Line/Load Regulation

\pm 1% combined from no load to
full load

Output Over-voltage Protection

Transzorb clamp

Overload Protection

Current limiting with short circuit
protection (hiccup mode)

EMI

Meets EN 55022 Class A

Output Ripple/Noise

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

Operating Temperature

0 to +50°C (depending on
available conduction)
-40 to +85°C versions upon
request

Temperature Drift

0.03% per °C over operating
temperature range

MTBF

100,000 at 45°C

Dimensions

PCB Size: 2" x 5.3"
Component height: 1.125"
Enclosed case: 2.38"x 6.28"x 1.5"
Potted version: 3.2"x 6.15"x 2.86"

Connections:

Screw type Terminal block
(or optional header pins with
0.156" spacing)

Warranty

Twelve months subject to
application within good
engineering practice

Enhancements to these general specifications and customizing can be accommodated upon request.
Designed to meet all approval requirements.

Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Standard or custom. Absopulse is a BAPT approved facility.

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