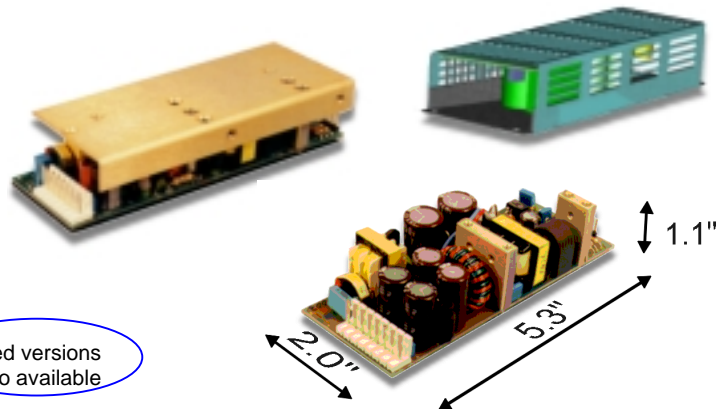


50W, DUAL OUTPUT, ULTRA COMPACT DC/DC CONVERTER

2" X 5.3" PCB SIZE

MIM 205 SERIES

- Field proven design
- Very high quality
- Competitive price
- Meets common approval requirements
- Input 12V, 24V & 48V DC standard
- Conduction cooled - no fan
- Double output
- Fully protected
- Stock or short delivery



Potted versions also 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 50W capability. Features include 200 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. Versions with three or four outputs are also available.

SPECIFICATIONS

Input Voltage
12V, 24V, 48V DC standard
Other voltages upon request

Input Protection
Thermal Fuse
Inrush current limiting

Input Isolation
500VDC input to chassis
500VDC input to output
100VDC output to chassis

Compliance to IEC950, CSA C22.2 No. 950 and UL 1950
Please contact factory for approval status for the required input/output configuration

Output Voltages
 $\pm 12V/2A$ each; $\pm 24V/1A$ each,
 $\pm 36V/0.75A$ each; $\pm 48V/0.5A$
each are standard
Consult factory for other voltages

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

Line/Load Regulation
 $\pm 1\%$ combined from 10% load to
full load on the main output, and
 $\pm 5\%$ on the minus output

Output Overvoltage Protection
Transorb clamp

Overload Protection
Current limiting with short circuit
protection (hiccup mode)

EMI
Meets EN 55022 Class A as a
minimum

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: 1.1"
Enclosed case: 2.2" x 6.1" x 1.55"
Potted version: 2.2" x 5.5" x 1.3"

Connections:
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 common approval requirements. 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. Standard or custom. Absopulse is a BABT approved facility.

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