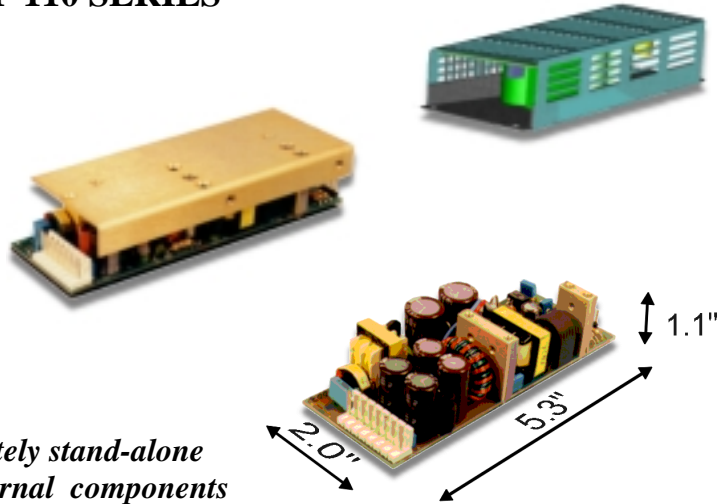


# 100W ULTRA COMPACT DC/DC CONVERTER

## 2" X 5.3" PCB SIZE

### MIP 110 SERIES

- Field proven design
- Very high quality
- Competitive price
- Meets EMI EN 55022 Class A requirements
- Input 24V & 48V DC standard
- Conduction cooled - no fan
- Single output
- Fully protected
- Stock or short delivery
- Potted versions available



**Completely stand-alone  
(no external components  
required)**

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 100W 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.

### SPECIFICATIONS

<b>Input Voltage</b> 24V & 48V DC standard Other voltages upon request	<b>Efficiency</b> Depending on input/output configuration: 80%-95%	<b>Output Ripple/Noise</b> Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20HZ BW)	<b>MTBF</b> 100,000 at 45°C
<b>Input Protection</b> Thermal Fuse Inrush current limiting	<b>Line/Load Regulation</b> ±1% combined from no load to full load	<b>Operating Temperature</b> 0 to +50°C (depending on available conduction) -40 to +85°C versions upon request	<b>Dimensions</b> PCB Size: 2" x 5.3" Component height: 1.1" Enclosed case: 2.4" x 5.8" x 1.5"
<b>Input Isolation</b> 500VDC input to chassis and input to output 100VDC output to chassis	<b>Output Overvoltage Protection</b> Transzorb clamp	<b>Temperature Drift</b> 0.03% per °C over operating temperature range	<b>Connections:</b> Header pins with 0.156 spacing
<b>Output Voltages</b> 12V/8A, 24V/4A, 36V/3A, 48V/2A, 72V/1.5A are standard Consult factory for other voltages	<b>Overload Protection</b> Current limiting with short circuit protection (hiccup mode)	<b>EMI</b> Meets EN 55022 Class A and	<b>Warranty</b> 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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