

VMIVME-PS8 Converter ±12 V Power Supplies 3 to 9.6 Watts Specifications

- 70 to 83 percent efficiency*
- 80,000 to 100,000 hr MTBF*
- Thermo protection
- Compact
- Output, short protection
- -25 to 71 °C (1 inch from the case)

INTRODUCTION — VMIVME-PS8 converter power supplies provide the user with an economical and convenient ± 12 VDC power source available with regulated or unregulated outputs that plugs into the otherwise unused slot 0 of the VMIVME-120 chassis. This ± 12 VDC converter will be powered from the existing 5 VDC source. These power converters are intended to be used to supply ± 12 VDC.

These power converters are comprised of highly reliable power modules that provide the user with an economical and convenient ± 12 VDC power from an existing 5 V source.

The power module is self-cooling, providing cooling to achieve full ratings at 71 °C ambient temperature (1 inch from the case).

The installer can plug the converter supply into a chassis, then terminate the DC power lead(s) to the appropriate backplane connector. (System integration is available with the purchase of a chassis and backplane.)

SPECIFICATIONS

Adjustability: All outputs are fixed

Input Volts: 5 VDC ±10 percent

Load Regulation: 0.2 percent (regulated model) 10 percent (unregulated model) (10 to 100 percent load)

Ripple and Noise: Less than 100 mV RMS

Output Volts: ±12 VDC

Temperature Coefficient: 0.02 percent per °C

Oscillating Frequency: 60 or 40 kHz¹

Short Circuit and Overload Protection: All outputs are protected against overload and short circuit by power foldback. Automatic recovery upon removal of fault.

Input Filter: Pi-input

Thermal Shutdown: Shuts down the power supply if overheated. Automatic recovery.

Operating Temperature Range: -25 to 71 °C (1 inch from the case)



Efficiency: 70 to 83 percent typical* (at nominal voltage)

I/O Isolation: Isolated 500 V

Reverse Voltage: Protected against reverse voltage up to supply current rating

Reliability: 80,000 to 100,000 hr MTBF*

Shielding: EMI-RFI

TRADEMARKS

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| Ordering Options | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| October 30, 1996 800-000139-000 C | | A | в | С | _ | D | Е | F |
| VMIVME-PS8 | - | | 0 | | - | | | |
| ABC = Regulation and Current Options 000 = Unregulated *, 250 mA 001 = Unregulated *, 300 mA 002 = Unregulated *, 400 mA 003 = Unregulated *, 600 mA 004 = Unregulated *, 800 mA 100 = Regulated, 250 mA 101 = Regulated, 200 mA 102 = Regulated, 500 mA 103 = Regulated, 600 mA | | | | | | | | |
| Notes | | | | | | | | |
| *Unregulated 10 percent, 10 mV pp ripple. Regulated 0.2 percent, 1 mV pp ripple. | | | | | | | | |
| For Ordering Information, Call: 1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859 E-mail: info@vmic.com Web Address: www.vmic.com Copyright © June 1993 by VMIC Specifications subject to change without notice. | | | | | | | | |

^{1.} Depending on the model.







FRONT AND RIGHT SIDE VIEW

Figure 1. Outline and Nominal Dimensions of VMIVME-PS8 Converter Power Supply