

POWER CONVERSION PRODUCTS
Airborne Series

Part No.: VTA03003-01

200W, 2-Channel Power Supply

FEATURES

- ❑ Up to 200 Watts Output Power
- ❑ ANSI-VITA1-1994 (VME Backplane) compliant
- ❑ MIL-STD-704E, Cat B. (115Vac Line Neutral, 3Ø, 400Hz Input Power)
- ❑ High Input/Output Isolation
- ❑ Low Output Ripple
- ❑ Continuous Short Circuit Protection
- ❑ Thermal Protection
- ❑ AC Power Monitoring / DCOK*

This Power Supply used in low power VME computer applications features a low profile package of 4.10” L x 6.5” W x 2.0” H or 3.75Watt/in³. It has excellent load regulation, input filtering, and low output ripple as well as current limiting/thermal shutdown.

Input Specifications:

Steady State Voltage 108 to 118 VAC
 Surge Voltage 100 VAC and 180 VAC for 0.1s
 Frequency 400 ± 20 Hz
 Inrush Current..... 5 A peak maximum per phase
 Isolation (input to chassis)..... > 10 meg-ohm @ 500 Vdc
 Power Factor (any load > 60%)..... > 0.8 for any load >50%

Output Specifications:

<u>Nominal Voltage</u>	<u>Nominal Current</u>	<u>DC Regulation</u>	<u>Ripple & Noise</u>	<u>Maximum Power</u>
+ 5 VDC	35.0 A	+0.25V/-0.125V	< 150 mVp-p	200W
+12 VDC	4.0 A	+0.6V/-0.36V	< 150 mVp-p	50W
Regulation (10% and 100% of rated load)				+5%/-2.5%
Remote Sensing				Present on +5V output, 0.25V/Line max.
Stabilization Time				<1 sec after application of primary power.

Output Specifications:

Over-voltage Protection (Latching).....	Any channel > 35% of nominal voltage. Reset by re-cycling AC Power.
Over-current Protection (Continuous).....	Any channel > 10% of nominal current.
Efficiency (full load).....	> 75%
ACFAIL* Signal (ANSI-VITA1-1994).....	Open-collector TTL-compatible.
AC Present Indication	15 to 20mA @ 5V, LO if $108 \leq VAC \leq 150$
Hold-Up Time.....	>5 msec @ 75% of nominal load.
DCOK*	Both channels within $\pm 10\%$ of nominal
Over-Temperature Protection.....	Baseplate temp @ $80 +7 / -3^{\circ}C$ (closes overtemp contacts rated for 28V @ 0.25A and provides an active-low open collector indication referenced to Logic Ground.

Physical Specifications:

Weight.....	< 3.5 lbs or 1.6 kgs
Case.....	Alluminum alloys
Finish.....	Allodyne chemical film
Mounting Position.....	Any orientation
Connections	J1 (I/P): DEMC9P JK87
.....	J2 (O/P): DDMMY24W7S

Environmental Specifications:

Shock.....	Half-sine, 11ms, 6g.
Vibration.....	MIL-STD-810E, Method 514.4, Cat V.
Case Temperature	Operating: $0^{\circ}C$ to $+70^{\circ}C$ Storage: $-40^{\circ}C$ to $+85^{\circ}C$
Altitude.....	25,000 ft ASL
Humidity.....	Operating: up to 85% non-condensing Storage: up to 100% condensing
Predicted Reliability (MIL-HDBK-217F).....	40,000 hours A_{IC} @ $30^{\circ}C$

*Viab*le Power Conversion Technologies Inc.

2044 St. Regis Boul.
Dorval, Quebec, Canada,
H9P 1H6

Tel: (514) 684-4141
Fax: (514) 684-1276
Web: www.viablepower.com