

<b>POWER CONVERSION PRODUCTS</b>	<b>Airborne Series</b>
----------------------------------	------------------------

**Part No.: VTA02068-00**

**AC/DC Multi-Output Power Supply**

**FEATURES**

- ❑ Up to 675 Watts Output Power
- ❑ MIL-STD-704A, Cat B. (115Vac Line Neutral, 3Ø, 400Hz Input Power)
- ❑ ANSI-VITA1-1994 VME Standard compliant
- ❑ High Input/Output Isolation
- ❑ Low Output Ripple
- ❑ Continuous Short Circuit Protection
- ❑ Thermal Protection
- ❑ AC/DC Power Monitoring

This Power Supply used in modular VME computer applications features a low profile package of 15.6" L x 8.0" D x 4.9" H or 2.19Watt/in<sup>3</sup>. 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.....	< 10 A peak maximum per phase
Isolation (input to chassis).....	> 10 meg-ohm @ 500 Vdc
Power Factor.....	> 0.80 for any loading >50% of rated load
Enable Control Interface .....	Opto-isolated Enable Control Discrete I/P; and
.....	Enable Control Analog I/P from a temperature
.....	sensing device.

**Output Specifications:**

<u>Nominal Voltage</u>	<u>Nominal Current</u>	<u>DC Load Regulation</u>	<u>Ripple &amp; Noise</u>	<u>Maximum Power</u>
+24 VDC-Aux	3.0 A	±4%	< 200 mVp-p	72W
+5 VDC	120 A	±2.5%	< 50 mVp-p	600W
+3.3 VDC	45 A	±2.5%	< 50 mVp-p	148W
+12 VDC	20 A	±3%	< 50 mVp-p	240W
-12 VDC	12 A	±3%	< 50 mVp-p	144W
+24 VDC-Fan	3.0 A	±4%	< 200 mVp-p	72W

**Output Specifications:**

Load Regulation (@ 25% min load).....	Step load changes between 65% and 70%.
Remote Sensing (150 mV line drops).....	Present on +5V and 3.3V outputs
Stabilization Time .....	<1 sec after application of primary power.
ACOKLED* Signal .....	15 to 20mA current sink @ 5V.
Hold-Up Time.....	>50 msec @ 100% of nominal load.
DCOK* Signal (+5V, +3.3V and ±12V) .....	Open-collector TTL-compatible.
Status LED Driver .....	15 to 20mA current sink @ 5V
Efficiency (full load) .....	> 75%
Over-voltage Protection (Latching).....	Any channel between 15% and 25% of nominal voltage. Reset by re-cycling AC Power.
Over-current Protection (Continuous).....	Any channel > 35% of nominal current. Automatic recovery upon removal of overload.
Over-Temperature Protection .....	Activated at a baseplate temp of 95 ± 2°C.
Over-Temperature Indication (OT#1).....	Solid-state contacts rated @ 40 VDC, 250mA.
OTLED* Signal (OT#2) .....	15 to 20mA current sink @ 5V

**Physical Specifications:**

Weight.....	< 15.75 lbs or 7.1 kgs
Case.....	Alluminum alloys
Finish.....	Allodyne chemical film
Cooling.....	Convection cooling
Connections .....	J1: I/P Power, DBMV5H5PNK87
.....	J2: O/P Power, Hypertronics, L series
.....	J3: Trim, DEE9SA197
Mounting .....	Any orientation

**Environmental Specifications:**

Shock.....	Half-sine, 11ms, 6g.
Vibration.....	MIL-STD-810E, Method 514.4, Cat 4, ..... Procedure I.
Bench Handling Shock.....	MIL-STD-810E, Method 516.4, Procedure ..... VI
Air Temperature.....	Operating: -25°C to +55°C ..... Storage: -54°C to +90°C
Altitude.....	15,000 ft ASL
Humidity.....	Operating: up to 95% non-condensing Storage: up to 100% condensing
Electromagnetic Compatibility.....	CE101, Figure CE101-4, Curve #1; ..... CE102, Figure CE102-1, Basic curve; ..... CS101, Figure CS101-1, Curve #1
Predicted Reliability (MIL-HDBK-217F).....	>20,000 hours A <sub>1C</sub> @ 30°C

*Viable 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](http://www.viablepower.com)