

POWER CONVERSION PRODUCTS	Airborne Series
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Part No.: VTA99005-01

210W, 2-Channel Power Supply

FEATURES

- ❑ Up to 210 Watts Output Power
- ❑ ANSI-VITA1-1994 (VME Backplane) compliant
- ❑ MIL-STD-704A, 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

This Power Supply used in low power VME computer applications features a low profile package of 8.56" L x 9.52" W x 4.40" H or 0.58Watt/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.....	12 A peak maximum per phase
Isolation (input to chassis).....	> 10 meg-ohm @ 500 Vdc
Power Factor (any load > 60%).....	> 0.7 for any load >60%
Reset Switch (manual)	Activates a VME SYSRESET* signal

Output Specifications:

<u>Nominal Voltage</u>	<u>Nominal Current</u>	<u>DC Regulation</u>	<u>Ripple & Noise</u>	<u>Maximum Power</u>
+ 5 VDC	8.5 A	±4%	< 75 mVp-p	42.5W
+3.3 VDC	50 A	±4%	< 30 mVp-p	165W

Regulation (65% and 70% of rated load)	+5%/-2.5%
Remote Sensing	Present on +5V and +3.3V outputs
Stabilization Time	<1 sec after application of primary power

Output Specifications:

Output Sequencing.....	3.3 VDC controlled to not to exceed 500mV over 5 VDC channel.
Over-voltage Protection (Latching).....	Any channel > 25% of nominal voltage. Reset by re-cycling AC Power.
Over-current Protection (Continuous).....	Any channel > 15% of nominal current.
Efficiency (full load).....	> 67%
AC Present Indication (ACOKLED).....	15 to 20mA @ 5V.
Hold-Up Time.....	>80 msec @ 75% nominal load.
12V Sensing Signals ($\pm 12V$).....	Open-collector TTL-compatible.
Status LED Driver (DCOKLED).....	15 to 20mA @ 5V.
Over-Temperature Protection.....	Baseplate temp @ $80 \pm 2^{\circ}C$ (closes overtemp contacts rated for 28V @ 0.25A and provides an active-low open collector indication referenced to Logic Ground.

Physical Specifications:

Weight.....	< 12 lbs or 5.5 kgs
Case.....	Alluminum alloys
Finish.....	Allodyne chemical film
Mounting Position.....	Any orientation
Connections.....	J1: I/P Power, DEMC9PJK87
.....	J2: +5V and Interface, DDM24W7S
.....	J3: +3.3V, DCM8W8S

Environmental Specifications:

Shock.....	Half-sine, 11ms, 6g.
Vibration.....	MIL-STD-810E, Method 514.4, Cat V.
Air Temperature.....	Operating: $0^{\circ}C$ to $+50^{\circ}C$ Storage: $-40^{\circ}C$ to $+71^{\circ}C$
Altitude.....	25,000 ft ASL
Humidity.....	Operating: up to 85% non-condensing Storage: up to 100% condensing
Predicted Reliability (MTBF).....	20,000 hours AIC @ $30^{\circ}C$

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