

POWER CONVERSION PRODUCTS	 Shipboard Series
----------------------------------	---

Part No.: VTA98019-00

360W AC/DC Multi-Output Power Supply

FEATURES

- ❑ Up to 360 Watts Output Power
- ❑ DOD-STD-1399, Section 300A (Type I & II) compliant
- ❑ High Input/Output Isolation
- ❑ Low Output Ripple below 20 MHz
- ❑ Continuous Short Circuit Protection
- ❑ Thermal Protection
- ❑ Interface Signals

This Power Supply, used in low power, Shipboard Electronics Equipment applications, features a low profile package of 11.9” W x 3.6” H x 9.9” D or 0.85Watt/in³. It has excellent load regulation, input filtering, and low output ripple as well as current limiting/thermal shutdown.

Input Specifications:

Steady State Voltage	115 VAC ±20%
Transients	Per MIL-STD-1399, Section 300A (Type I & II)
Frequency	60 Hz ±5.5% or 400 Hz ±6.5%
Inrush Current.....	15 A peak maximum
Isolation (input to ground).....	Hi-Pot Tested @ 1000 VDC
Power Factor (full load)	> 0.9

Output Specifications:

<u>Nominal Voltage</u>	<u>Output Currents</u>			<u>DC Regulation</u>	<u>Ripple & Noise</u>
	<u>Min. Load</u>	<u>Half Load</u>	<u>Full Load</u>		
+3.3 VDC	1 A	15 A	30 A	±0.066 V	<130 mVp-p
+5.06 VDC	3 A	25 A	60 A	±0.100 V	<50 mVp-p
+12.1 VDC	.01 A	4.15 A	8.3 A	±0.240V	<50 mVp-p
-12.1 VDC	.01 A	4.15 A	8.3 A	±0.240V	<50 mVp-p
+5.0 VDC	0 A	1.0 A	2.0 A	±0.250V	<100 mVp-p

All outputs are VME Standard compatible

Output Specifications:

Over-voltage Protection	Any channel 125% of nominal voltage
Current Limit (Maximum).....	3.3VDC @ 38Amp
.....	5.06VDC @ 100 Amp
.....	12VDC @ 10.5 Amp
.....	-12VDC @ 10.5 Amp
Efficiency (at full load)	> 70%

Interface Signals:

ACFAIL* Output	Designed to meet VME64 Standard
SYSRESET* Output.....	Designed to meet VME64 Standard
Latched Signal Output	0.5VDC @ 20 mA
Over-temperature Warning Output.....	TTL Open Collector, 0.5VDC @ 20 mA
Power Supply Fault Output	TTL Open Collector, 0.5VDC @ 20 mA

Physical Specifications:

Weight	< 12 lbs or 6 kgs
Case.....	Alluminum alloys
Finish.....	Chemical Film per MIL-C-5541, Class 3
Mounting Position.....	Any orientation
Connections	AC Input: M24308/4-1 (J1)
.....	DC Output: LTEBV14/3MFS/2CFS (J2)
.....	Interface: M24308/2-1 (J3)

Environmental Specifications:

Shock.....	Designed to meet MIL-STD-901D
Vibration.....	Designed to meet MIL-STD-167-1
Cooling Method.....	Air cooled
Conducted RFI.....	Designed to meet MIL-STD-461D
Temperature.....	Operating: 0°C to +50°C
.....	Storage: -40°C to +70°C
Altitude.....	50,000 feet

Reliability:

Reliability Prediction (MIL-HDBK-217F)	TBD
--	-----

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