

POWER CONVERSION PRODUCTS	 Shipboard Series
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Part No.: VTA98014-00

465W DC/DC Multi-Output Power Drawer

FEATURES

- ❑ Up to 465 Watts Output Power
- ❑ MIL-STD-1275A & 1332B compliant (28Vdc Input Power)
- ❑ High Input/Output Isolation
- ❑ Low Output Ripple
- ❑ Continuous Short Circuit Protection
- ❑ Thermal Protection
- ❑ DCTest Points / Output Status Signals

This Power Drawer, used in Submarine Ship Control applications, features a low profile package of 11.8” L x 5.5” W x 3.3” H or 2.17Watt/in³. It has excellent load regulation, input filtering, and low output ripple as well as current limiting/thermal shutdown protection.

Input Specifications:

Steady State Voltage	18 to 36 Vdc
Surge Voltage	16 to 40 VDC
Isolation Resistance	> 40 meg-ohms
Input Capacitive Loading	< 0.1 µF Positive or Negative to chassis
Harmonic Distortion	per MIL-STD-1399 Section 300A
Power Factor (full load)	0.9

Output Specifications:

<u>Nominal Voltage</u>	<u>Nominal Current</u>	<u>DC Regulation</u>	<u>Ripple & Noise</u>	<u>Max. Power</u>	<u>Current Limiting</u>
+28 VDC	6.0 A	±1.40 Vdc	<.280 Vp-p	168W	7.0 A max.
+12 VDC	4.0 A	±0.80 Vdc	<.050 Vp-p	48W	5.0 A max.
-12 VDC	4.0 A	±0.80 Vdc	<.050 Vp-p	48W	5.0 A max.
+5 VDC	40.0 A	±0.25 Vdc	<.050 Vp-p	200W	50.0 A max.

Output Specifications:

Over-voltage Protection	< 120% of Rated O/P Voltage, any channel
Over-current Protection	< 125% of Full Rated Load, any channel
Efficiency (at full load)	> 70%
Output Status	Available on each channel. Provide “output status” when voltages are not within ±5% of nominal.
AC – OK LED	Indicates Input AC Power is ON and within specifications.
Thermal Detection	Baseplate temp @ 80 ± 2°C (closes O/T contacts rated for 28V @ 0.5A)
Test Points	Available for each DC output voltage

Physical Specifications:

Weight	< 9 lbs or 4.1 kgs
Case	Alluminum alloys
Finish	Black Anodized.
Mounting Position	Any orientation
Connectors	Input: DCMMY8W8P Output: DDMY24W7S
Cooling	Forced Convection cooled

Environmental Specifications:

Shock	Half Sine, 11msec, 50g. 3 axes.
Vibration	4-50Hz, .024” to .003” (MIL-STD-167-1)
Temperature	Operating: 0°C to +70°C Storage: -10°C to +70°C
Electromagnetic Susceptibility/Emissions	MIL-STD-461
Altitude	15,000 ft @ 25°C or less
Humidity	Operating: 20% to 80% non-condensing Storage: 20% to 80% non-condensing
Reliability Prediction (MIL-HDBK-217F)	TBD

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