

POWER CONVERSION PRODUCTS
Ground Mobile Series

Part No.: VTA98003-00

160W DC-DC Power Converter

FEATURES

- ❑ Up to 160 Watts Output Power
- ❑ Wide DC Input Range / EMI Filtered
- ❑ EMI: FCC Part 15A, EN55022, Class A compliant
- ❑ Powers Telecom Equipment
- ❑ Input Transients Protection
- ❑ Continuous Short Circuit Protection
- ❑ Power Sequencing

This high reliability DC-DC Power Converter Unit, used in Remote Unmanned Wireless Phone System, features a low profile package of 5.8” W x 9.8” H x 1.2” D or 2.34Watt/in³. It has excellent load regulation, input filtering, and low output ripple as well as current limit protection.

Input Specifications:

Steady State Input Voltage	36 to 60 VDC
Transients Protection.....	1500W, 1.5Joule, 72V transient suppressor
Inrush Current (72V in, Full Load)	< 30 A peak,
Overcurrent Protection.....	Fused, 5 A
Under-voltage shut down	38 V, typical
Over-voltage shut down	62 V, typical

Output Specifications:

<u>Nominal Voltage</u>	<u>Maximum Current</u>	<u>DC Load Regulation</u>	<u>Ripple & Noise</u>	<u>Maximum Power</u>
+ 5.0 VDC	15 A	±2%	< 50 mVp-p	75 W
+ 3.3 VDC	3 A	±2%	< 20 mVp-p	9.9 W
+12.0 VDC	6 A	±2%	< 100 mVp-p	72 W
Current Limit	105% to 125% of maximum current			
Efficiency	> 80% @ full load			
Power Consumption.....	151 Watts maximum			
Power Dissipation.....	30 Watts maximum			

Physical Specifications:

Weight ≤ 4.4 lbs, 2Kgs
Enclosure Aluminum Alloy 5052-H32
Finish Allodyne Chemical film, Class 1, yellow
Mounting Position Any orientation
Connections Input: GTSL02R16-10P (J1)
Output: GTSL02R16-10S (J2)

Environmental Specifications:

Temperature Operating -40°C to +85°C
Temperature Storage -40°C to +85°C
Cooling Method Natural convection
Humidity 95% RH, non-condensing
Altitude 70 to 106 kPa air pressure
Shock ETS300 019, Class 4.1, IEC 68-2-7
Vibration ETS300 019, Class 4.1, IEC 68-2-6

Reliability:

Reliability Prediction (MIL-HDBK-217F) >100.000 Hours

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