

POWER CONVERSION PRODUCTS
Ground Mobile Series

Part No.: VTA97022-00

50W DC-DC Converter

FEATURES

- ❑ Low Cost Power Converter
- ❑ Up to 50 Watts Output Power
- ❑ Wide DC Input Range / EMI Filtered
- ❑ Continuous Short Circuit Protection
- ❑ Thermal Protection

This Low Cost Power Converter, used in Telecom Equipment applications, features a low profile package of 6.0” W x 2.0” H x 3.2” D or 1.3Watt/in³. It has excellent load regulation, input filtering, and low output ripple as well as current limiting/thermal shutdown.

Input Specifications:

Steady State Input Voltage 38 to 72 VDC
 Inrush Current (72V in, Full Load) A peak maximum
 Isolation (input/output to chassis) Hi-Pot Tested @ 500 VDC

Output Specifications:

Nominal <u>Voltage</u>	Maximum <u>Current</u>	DC <u>Regulation</u>	Ripple & Noise	Maximum <u>Power</u>
+ 15 VDC	3.3 A	±4%	< 250 mVp-p	50 W

Over-voltage Protection 125% of nominal level
 Current Limit Set to between 105 & 125% of Full Load
 Current
 Efficiency > 80% @ 380 Watts

Physical Specifications:

Weight ≤ 2.2 lbs, 1 Kg
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 +70°C with transient
overtemperature +15°C for 10 minutes.
Temperature Storage -40°C to +85°C
Cooling Thermostatically Controlled Dual Fan
Cooling, self contained in PSU
Humidity Designed to meet MIL-STD-810E, Method
507, Procedure 1.
Salt Fog Designed to meet MIL-STD-810E, Method
509.3
Shock 50m/(sec*sec), 50 mSec, Half-sine pulse
Vibration 5 to 150Hz per EN50155

Reliability:

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

Viable Power Conversion Technologies Inc.
2044 St. Regis Boul.
Dorval, Quebec, Canada,
H9P 1H6

Cage: 3AJ03
Tel: (514) 684-4141
Fax: (514) 684-1276
Web: www.viablepower.com