

T1UDC SERIES SINGLE OUTPUT 1U HIGH DC to DC CONVERTER 600 Watts 1.65"x5"x8.7"

APPLICATIONS

The T1UDC family of DC-DC Converters was designed to satisfy a market for low cost, high reliability applications. The T1UDC is specially suitable for critical systems in remote locations, severe environment, redundant (N+1) or battery backup uninterruptible operation. This versatile design is loaded with options, making it suitable for today's demanding applications.

STANDARD FEATURES

- Compact, light weight
- Tightly regulated output
- OV/OL/OT protected
- $\pm 5\%$ output adjustment
- LED indicator (each module): Output power good
- Remote inhibit
- Input via D-Sub Connector
- MTBF > 150,000 hours
- Meets FCC Docket 20780
Level A and VDE 0871/6.78 Level A
UL1950, CSA, 22.2
- Meets NEBS

AVAILABLE OPTIONS

- Redundant Operation (N+1)
- Forced Current Sharing
- Ruggedized for Severe Environment
- Hot Pluggable in a 1U high rack
- Low Voltage Battery Disconnect (LVBD) for battery back-up operation



SPECIFICATIONS

Electrical

Input: 20-32 VDC or 42-56 VDC

Regulation: Line $\pm .3\%$
Load $\pm 2\%$

Ripple: 1% peak to peak, not to exceed 100mV

Efficiency: 80% Typical

Hold up time: 20ms min.

In Rush Current: 40A max 1/2 cycle

Protections: OV, OL & OT

Mechanical & Environmental

Operating Temperature: -10 °C to + 50 °C standard
-30 °C to + 65 °C optional

Storage Temperature: -40 °C to + 85 °C

Cooling: Internal ball bearing DC fans

Weight: 3.5 lbs. (1.6 Kgs.)

MODEL SELECTION

24 VOLT INPUT (Suffix P)			48 VOLT INPUT (Suffix Q)		
MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT
T1UDC-5-60P	5V	60A	T1UDC-50-60Q	5V	60A
T1UDC-12-50P	12V	50A	T1UDC-12-50Q	12V	50A
T1UDC-15-40P	15V	40A	T1UDC-15-40Q	15V	40A
T1UDC-24-25P	24V	25A	T1UDC-24-25Q	24V	25A
T1UDC-28-21P	28V	21A	T1UDC-28-21Q	28V	21A
T1UDC-48-12P	48V	12A	T1UDC-48-12Q	48V	12A

OPTION DESIGNATIONS

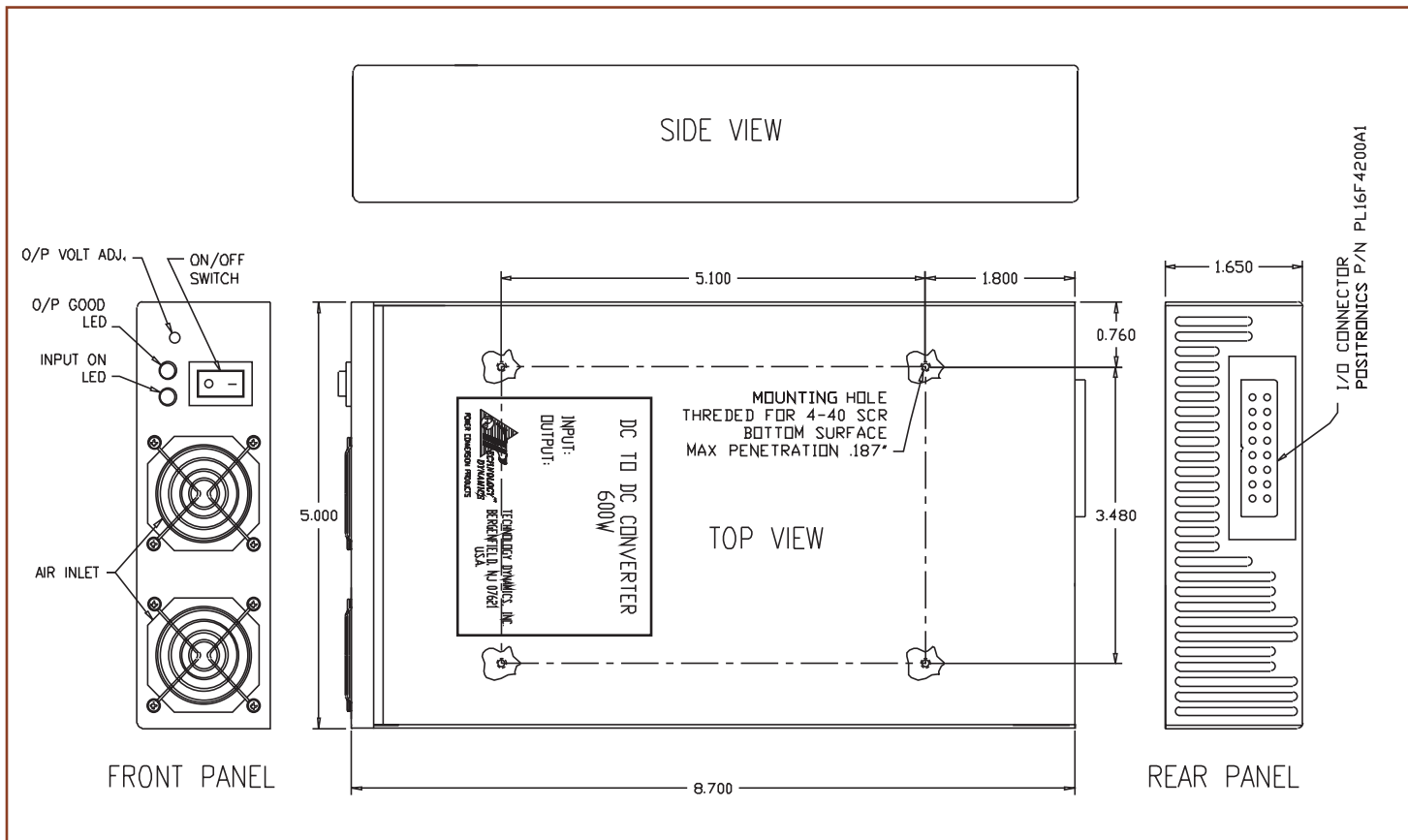
SUFFIX CODE

REDUNDANT OPERATION	-ORD
RUGGEDIZED/MILITARIZED	-MIL
HOT PLUGGABLE	-HSP
BATTERY BACK-UP	-LVBD

Low Voltage Battery Disconnect

The LVBD module adds a new dimension to battery backup power supplies. The power supply simultaneously charges the battery and powers the load. If the AC power fails, the battery continues to support the load. However when the battery voltage drops below a predetermined level, the LVBD module disconnects the battery from the load, thereby protecting the battery from the damaging effects of complete discharge.

MECHANICAL OUTLINE



SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

www.theallpower.com



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