

Model

# TCDC-7001



## Industrial DC:DC Converter for Photovoltaic Applications



- 24 Watt DC Power Supply
- Wide DC Input Range
- Isolation Control
- 80% Efficiency Typical

### Electrical Specifications

Rated Input Voltage	200 - 600 VDC
Input Voltage Range	190 - 1000 VDC
Volts Output	24 VDC +/- 2%
Rated Load Current	1.0 Amps
Input Power Max	30 watts DC
Ripple and Noise	< 120 mVp-p
Standby Power	<2 watts Typ at 600 VDC
In Rush Current	60 Amps Max at 1000VDC
Hold Up Time	> 20 mS at 400V Input end 1A Output Load
Internal Input Fuse	Not Replaceable
ESD Immunity	8kV air and 4kV contact per IEC61000 - 4 -2
Input Surge Immunity per IEC61000-4-5	2KV
Single Pulse, 1.2/50uS (class 3).	

### Mechanical Specifications

35 MM DIN Rail Mounting

Glass Filled Plastic case is durable with UL 94 V - 0 Flame Rating

Humidity	storage 95% from +25 to 50 C
Storage Temperature	- 40 to 75 C
Operating Temperature	- 20 to 50 C
-per UL 1741 Internal Ambient Expectations	

MTBF ( Calc )	> 200,000 hours at 40 C
Life Time	> 50,000 hours at 50 C ambient

### **Features:**

Power On LED indicator light  
 Fault protected and auto reset:  
 Input under-voltage, output over-load, or thermal shut down results in hiccup mode (Auto Restart).  
 Option 'L' - above faults latch unit off until input power cycled.

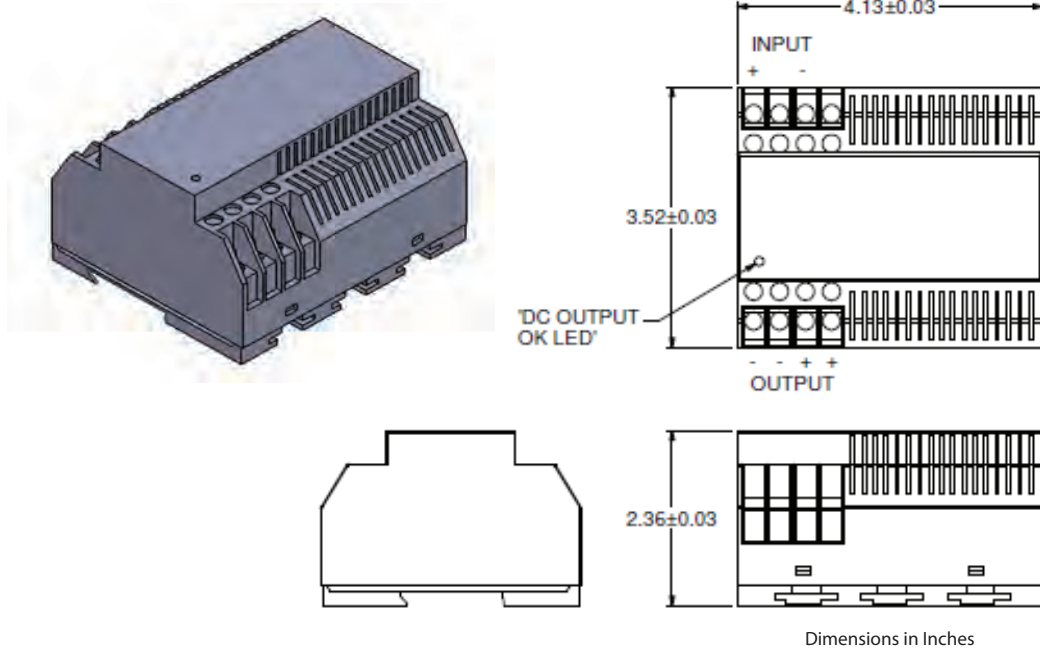
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### Mechanical Specifications



### Safety Specifications

Component certification in accordance with:

- UL 1741
- CSA No.107.1
- UL 1012

Output isolated from Input.

Dielectric Strength 4250 Vdc 60 sec.

from Input Terminals to Output Terminals  
and terminals to plastic case

For use in Controlled Environment, see Installation Guide Warnings and Restrictions.

### Applications

- Smart Combiner Box assemblies
- Remote Sensors and Security Power Source
- Radio and Wireless Data Links
- Power Current Sensors Modules
- Security Lighting
- Battery Charging (coming soon)

Item 41501 Rev C

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