

# 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	< 150 mVp-p
Standby Power	2 watts Typ at 600 VDC
In Rush Current	60 Amps Max

Hold Up Time	> 20 mS at 400V
Internal Input Fuse	Not Replaceable
ESD Immunity	8kV air and 4kV contact per IEC61000 - 4 -2

Surge Withstand; per EN61000-6-1	Level X
*Contact Tamura for test level	

### Features:

Power On LED indicator light  
Fault protected and easy reset:  
Overload 105 - 150% ~ cycle input ( to reset )  
Short Circuit Recovery ~ cycle input ( to reset )  
Over Voltage < 30 Vdc ~ cycle input (to reset )  
Over Temp : 115 Deg. C ( internal ) ~ auto reset

### 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

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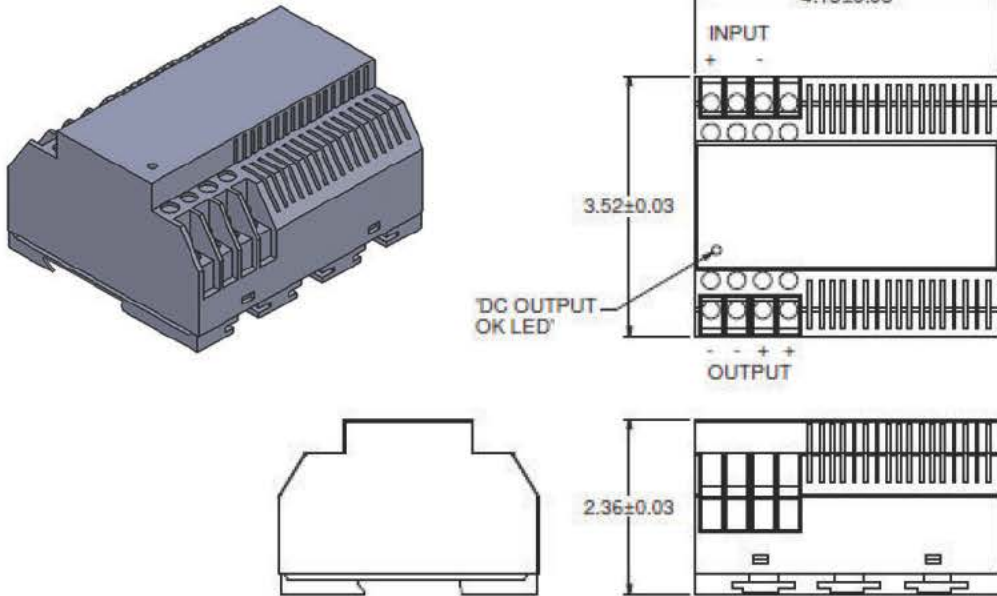
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### Mechanical Specifications



### Safety Specifications

Component certification in accordance with:

- UL 1741
- CSA No.107
- UL 1012

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 A

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