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**

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

**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.

Specifications Subject to Change without Notice
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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)

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