The DA PowerCool Series is a Direct-to-Air thermoelectric assembly (TEA) that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via conduction. Heat is absorbed through a cold plate and dissipated through a high density heat exchanger equipped with an air ducted shroud and brand name fan. The thermoelectric modules are custom designed to achieve a high coefficient of performance (COP) to minimize power consumption. This product series is available in a wide range of cooling capacities and voltages. Custom configurations and moisture protection options are available, however, MOQ applies.

**FEATURES**
- Compact design
- Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS compliant

**APPLICATIONS**
- Analytical instrumentation
- Medical diagnostics
- Photonics laser systems
- Industrial instrumentation
- Food and beverage cooling

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling Power Qcmax (W)</td>
<td>34</td>
</tr>
<tr>
<td>Running Current (A)</td>
<td>2.6</td>
</tr>
<tr>
<td>Startup Current (A)</td>
<td>3.2</td>
</tr>
<tr>
<td>Nominal Voltage (V)</td>
<td>12</td>
</tr>
<tr>
<td>Max Voltage (V)</td>
<td>15</td>
</tr>
<tr>
<td>Power Input (W)</td>
<td>31</td>
</tr>
<tr>
<td>Operating Temperature (°C)</td>
<td>-10 to 46</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.45</td>
</tr>
<tr>
<td>MTBF (fans - hrs)</td>
<td>50,000</td>
</tr>
<tr>
<td>Performance Tolerance</td>
<td>±10%</td>
</tr>
</tbody>
</table>
ISOMETRIC DRAWINGS

Cold Side

Warm Side

MOUNTING HOLE LOCATION

NOTES
For indoor use only
Thermally conductive grease enclosed

WIRING SCHEMATIC

Electrical connections
TEM+ : Pink
TEM- : Green
Fan+ : Purple
Fan- : Blue

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