## APH-199-14-15-E

### Peltier cooler module

**Data sheet**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imax</td>
<td>6.5 A</td>
</tr>
<tr>
<td>Vmax</td>
<td>24.1 Vdc</td>
</tr>
<tr>
<td>Pc max</td>
<td>88.4 W</td>
</tr>
<tr>
<td>ΔTmax</td>
<td>69 °C</td>
</tr>
<tr>
<td>A</td>
<td>40 mm</td>
</tr>
<tr>
<td>A1</td>
<td>40 mm</td>
</tr>
<tr>
<td>B</td>
<td>40 mm</td>
</tr>
<tr>
<td>H</td>
<td>3.9 mm</td>
</tr>
<tr>
<td>L</td>
<td>100 mm</td>
</tr>
<tr>
<td>Wire</td>
<td>AWG</td>
</tr>
</tbody>
</table>

(At hot side temperature Th = 25°C / 298K, under dry N₂).

- **Pc max** = Cooling power at ΔT = 0 and I = Imax.
- **ΔTmax** = Temperature difference at I = Imax and Pc = 0.

Max hot side temperature Th = 80°C for best long term performance.

Max mounting pressure: 1.5MPa.

Wires: UL-style 1569, 105oC (Unstripped).

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Data sheet - At hot side temperature 25°C

- **Heat removed (W)**
  - For different currents (I = 1.0 A to I = 6.5 A)
  - For temperature differences (ΔT = 0°C to ΔT = 80°C)

- **Waste heat (W)**
  - For different currents (I = 1.0 A to I = 6.5 A)
  - For temperature differences (ΔT = 0°C to ΔT = 80°C)

- **Input Voltage (V)**
  - For different currents (I = 1.0 A to I = 6.5 A)
  - For temperature differences (ΔT = 0°C to ΔT = 80°C)

- **COP**
  - For different currents (I = 1.0 A to I = 6.5 A)
  - For different temperature differences (ΔT = 0°C to ΔT = 60°C)
Data sheet - At hot side temperature 50°C

- Heat removed (W) vs. Temperature difference (°C)
- Waste heat (W) vs. Temperature difference (°C)
- Input Voltage (V) vs. Temperature difference (°C)
- COP vs. Current (A)

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Data sheet - At hot side temperature 75°C

Heat removed (W) vs. Temperature difference (°C)
- I = 6.5 A
- I = 5.0 A
- I = 4.0 A
- I = 3.0 A
- I = 2.0 A
- I = 1.0 A
- Max COP

Waste heat (W) vs. Temperature difference (°C)
- I = 6.5 A
- I = 5.0 A
- I = 4.0 A
- I = 3.0 A
- I = 2.0 A
- I = 1.0 A

Input Voltage (V) vs. Temperature difference (°C)
- I = 6.5 A
- I = 5.0 A
- I = 4.0 A
- I = 3.0 A
- I = 2.0 A
- I = 1.0 A

COP vs. Current (A)
- Delta T = 0 °C
- Delta T = 10 °C
- Delta T = 20 °C
- Delta T = 30 °C
- Delta T = 40 °C
- Delta T = 50 °C
- Delta T = 60 °C