**APH-241-14-11-E**

**Peltier cooler module**

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**Data sheet**

- **Imax** [A] 8.9
- **Vmax** [Vdc] 29.2
- **Pc max** [W] 146
- **ΔTmax** [°C] 68
- **A** [mm] 55
- **A1** [mm] 55
- **B** [mm] 55
- **H** [mm] 3.8
- **L** [mm] 100
- **Wire** AWG n/a

(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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Web: www.etdyn.com   Tel: +44(0)116 279 6899   E-mail: info@etdyn.com
Data sheet - At hot side temperature 25°C
Data sheet - At hot side temperature 50°C

**Graph 1:**
- **Heat removed (W)** vs. **Temperature difference (°C)**
- Different currents: I = 8.9 A, I = 7.0 A, I = 5.5 A, I = 4.0 A, I = 2.5 A, I = 1.0 A, Max COP

**Graph 2:**
- **Waste heat (W)** vs. **Temperature difference (°C)**
- Different currents: I = 8.9 A, I = 7.0 A, I = 5.5 A, I = 4.0 A, I = 2.5 A, I = 1.0 A

**Graph 3:**
- **Input Voltage (V)** vs. **Temperature difference (°C)**
- Different currents: I = 8.9 A, I = 7.0 A, I = 5.5 A, I = 4.0 A, I = 2.5 A, I = 1.0 A

**Graph 4:**
- **COP** vs. **Current (A)**
- Different temperature differences: 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
Peltier cooler module

Data sheet - At hot side temperature 75°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)

I = 8.9 A
I = 7.0 A
I = 5.5 A
I = 4.0 A
I = 2.5 A
I = 1.0 A
Max COP

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