

SERIES: CP60 | **DESCRIPTION:** PELTIER MODULE**FEATURES**

- solid state device
- precise temperature control
- quiet operation

**MODEL**

| MODEL | input voltage ¹ max (Vdc) | input current ² max (A) | internal resistance ³ typ ($\Omega \pm 10\%$) | output Qmax ⁴ | | output ΔT_{max} ⁵ | |
|------------|--|--|--|-----------------------------|-----------------------------|--------------------------------------|------------------------------|
| | | | | T _h =27°C (W) | T _h =50°C (W) | T _h =27°C (°C) | T _h =50°C (°C) |
| CP60133 | 3.8 | 6.0 | 0.50 | 12.2 | 13.6 | 66 | 72 |
| CP60233 | 8.6 | 6.0 | 1.20 | 27.9 | 31.2 | 66 | 72 |
| CP60333 | 15.4 | 6.0 | 2.20 | 50.5 | 56.5 | 66 | 72 |
| CP60140 | 2.1 | 6.0 | 0.29 | 7.1 | 7.9 | 68 | 75 |
| CP60240 | 3.8 | 6.0 | 0.53 | 13.0 | 14.5 | 68 | 75 |
| CP60301540 | 4.2 | 6.0 | 0.57 | 14.5 | 16.1 | 68 | 75 |
| CP60340 | 8.6 | 6.0 | 1.21 | 29.0 | 32.4 | 68 | 75 |
| CP60440 | 15.4 | 6.0 | 2.17 | 53.0 | 59.3 | 68 | 75 |

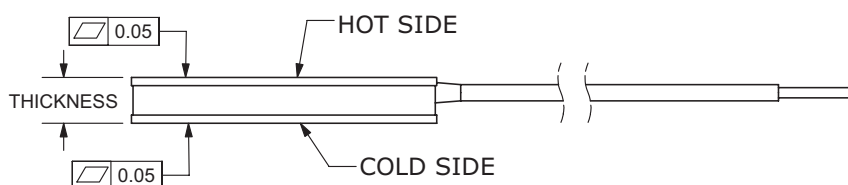
- Notes:
1. Maximum voltage at ΔT_{max} and T_h=27°C
 2. Maximum current to achieve ΔT_{max}
 3. Measured by AC 4-terminal method at 25°C
 4. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and $\Delta T=0^\circ\text{C}$
 5. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT_{max} measured in a vacuum at 1.3 Pa)

SPECIFICATIONS

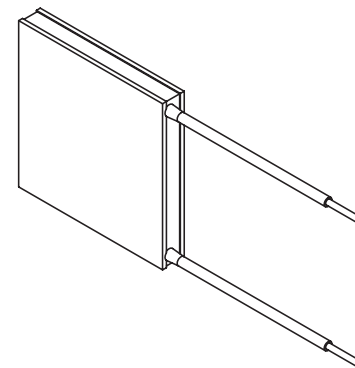
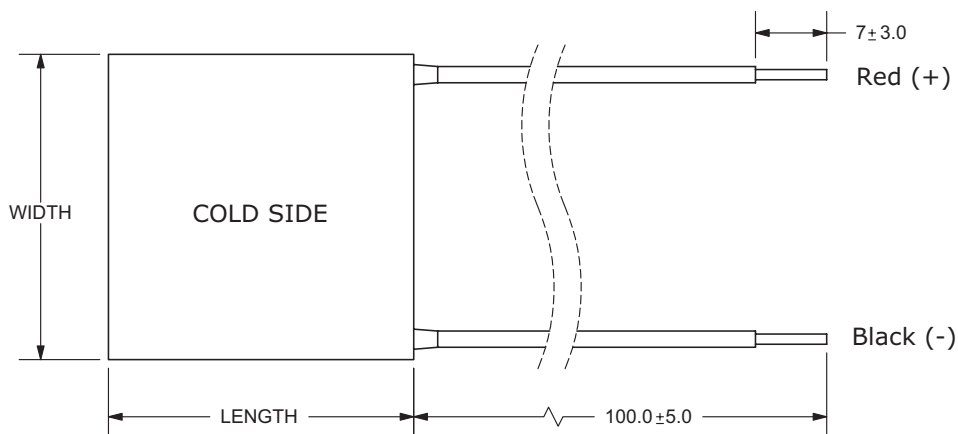
| parameter | conditions/description | min | typ | max | units |
|----------------------------|---|-----|-----|-----|-------|
| solder melting temperature | connection between thermoelectric pairs | 235 | | | °C |
| | CP60133, CP60233, CP60333, CP60301540 all other models | 138 | | | °C |
| assembly compression | | | | 1 | MPa |
| hot side plate | | | | 80 | °C |
| RoHS | yes | | | | |

MECHANICAL DRAWING

units: mm

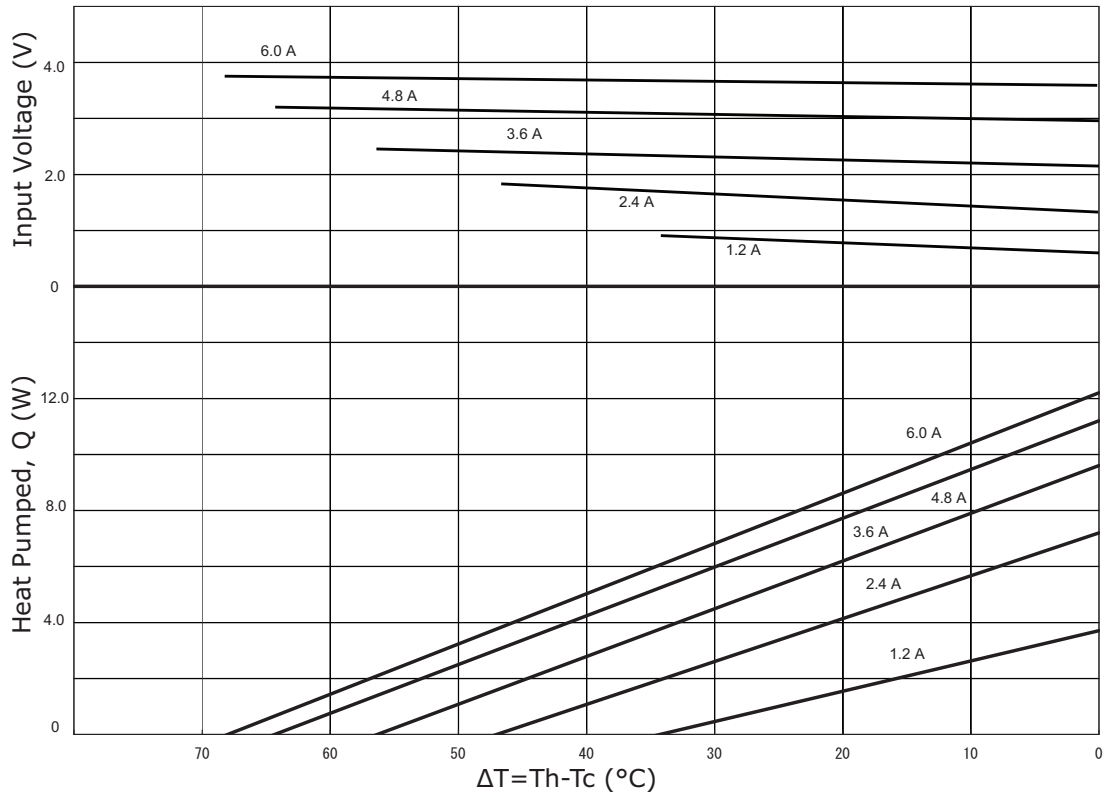


| | MATERIAL | PLATING |
|---------------|---|---------|
| ceramic plate | 96% AL ₂ O ₃ | |
| wire leads | 20 AWG | tin |
| sealer | silicon rubber 703 RTV (between cold and hot side plates) | |
| joint cover | silicon rubber 703 RTV | |
| marking | P/N & S/N printed on cold side surface | |

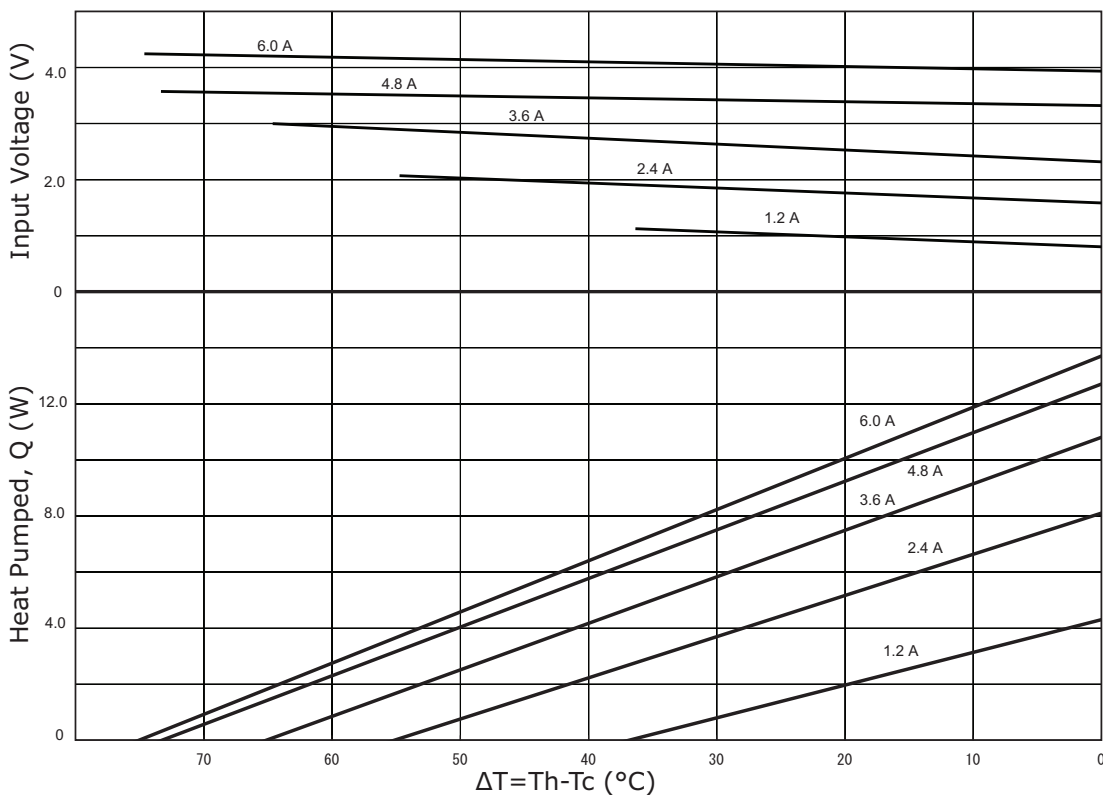


| MODEL NO. | LENGTH (mm) | WIDTH (mm) | THICKNESS (mm) |
|------------|-------------|------------|----------------|
| CP60133 | 15 ±0.3 | 15 ±0.3 | 3.22 ±0.1 |
| CP60233 | 20 ±0.3 | 20 ±0.3 | 3.22 ±0.1 |
| CP60333 | 30 ±0.3 | 30 ±0.3 | 3.22 ±0.1 |
| CP60140 | 15 ±0.3 | 15 ±0.3 | 4.0 ±0.1 |
| CP60240 | 20 ±0.3 | 20 ±0.3 | 4.0 ±0.1 |
| CP60301540 | 30 ±0.3 | 15 ±0.3 | 4.0 ±0.1 |
| CP60340 | 30 ±0.3 | 30 ±0.3 | 4.0 ±0.1 |
| CP60440 | 40 ±0.3 | 40 ±0.3 | 4.0 ±0.1 |

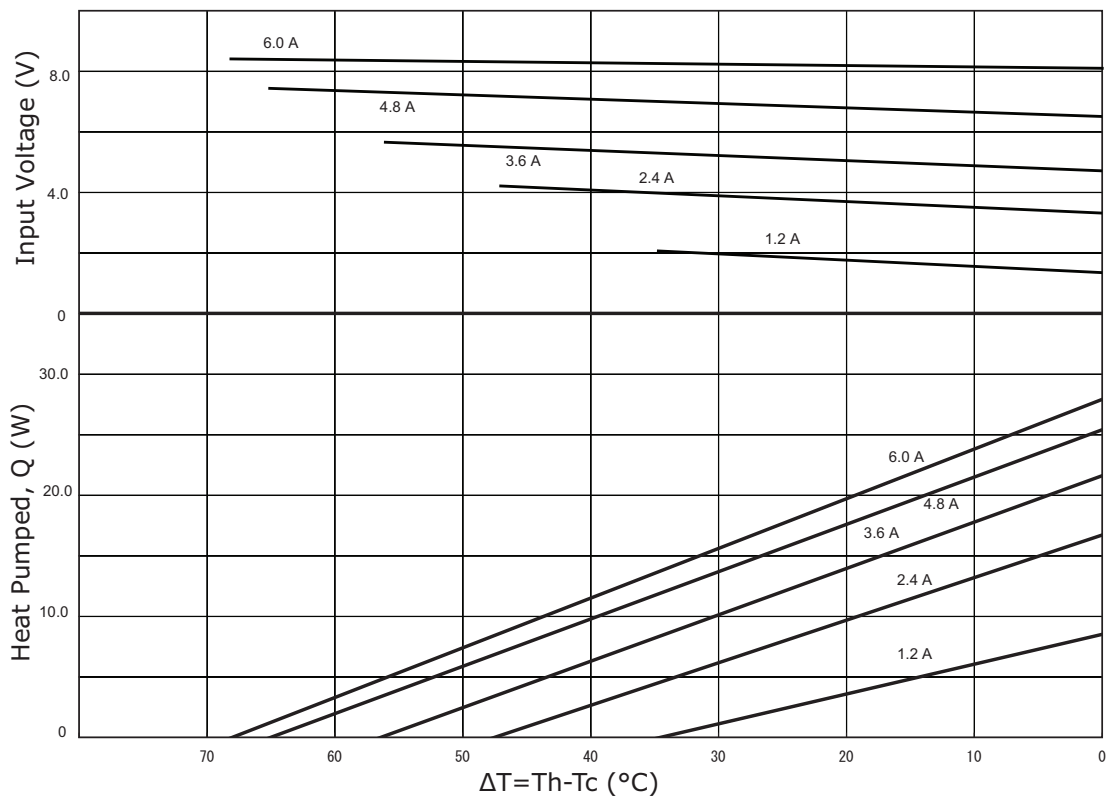
CP60133 PERFORMANCE (Th=27°C)



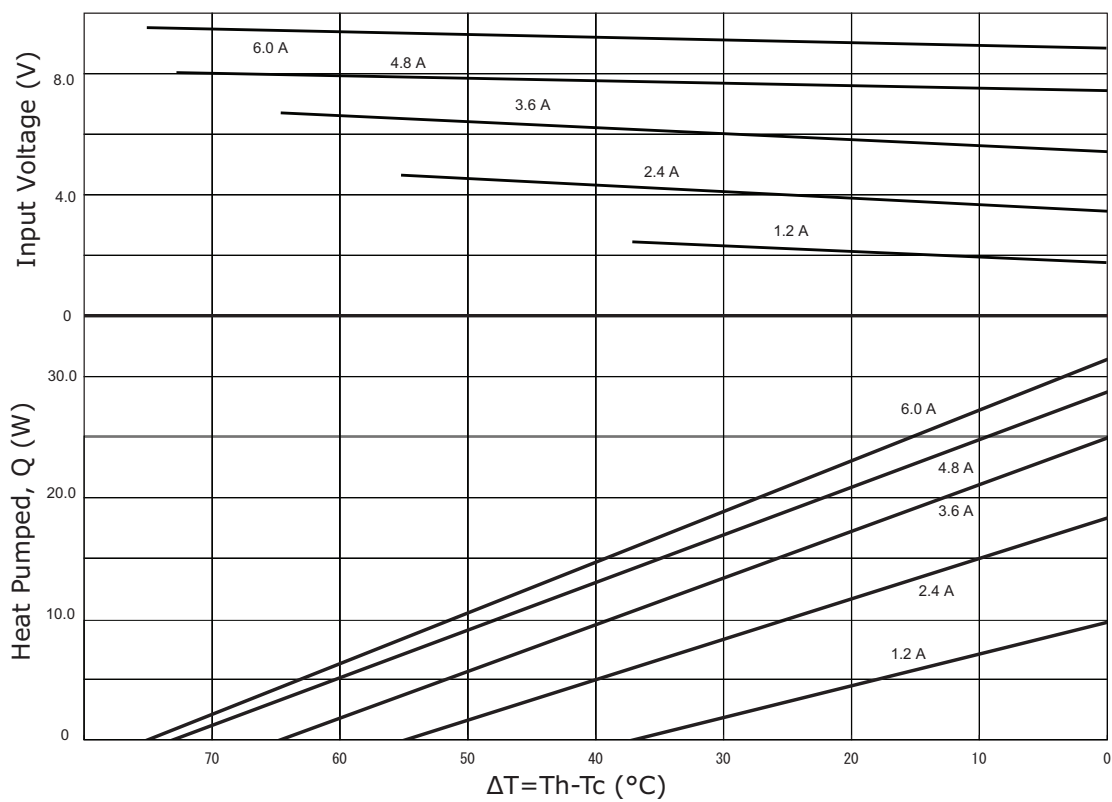
CP60133 PERFORMANCE (Th=50°C)



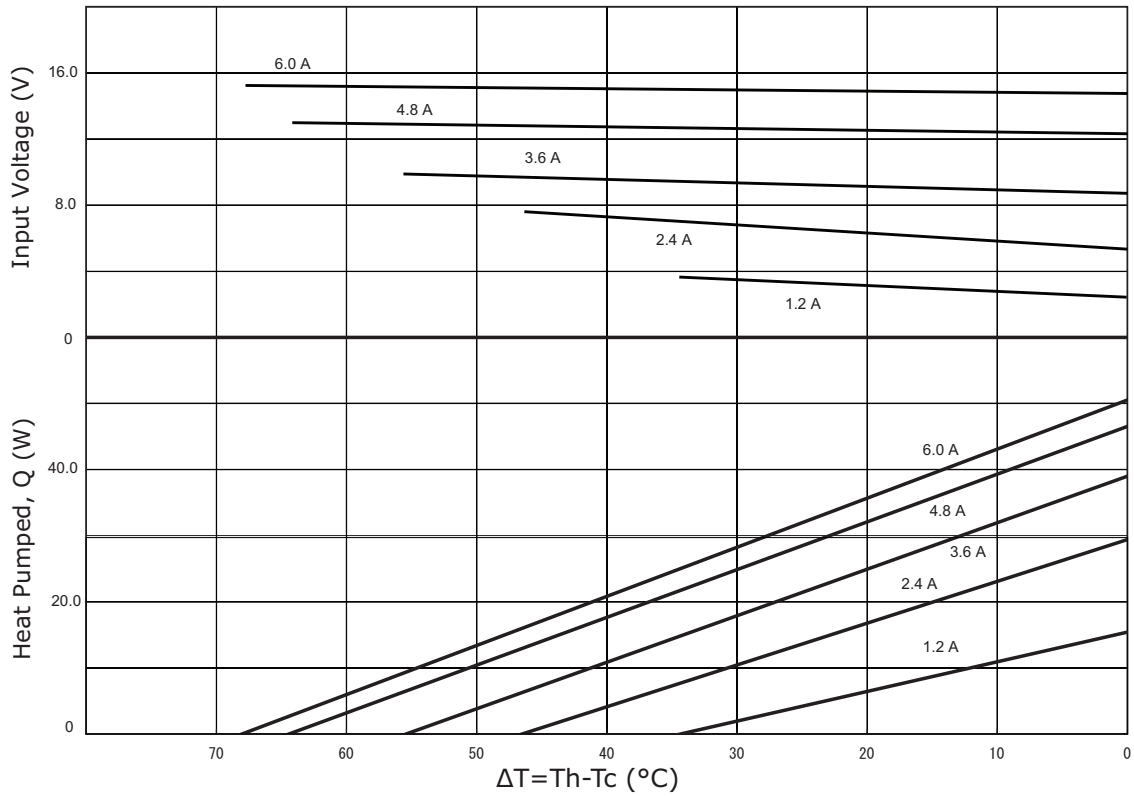
CP60233 PERFORMANCE (Th=27°C)



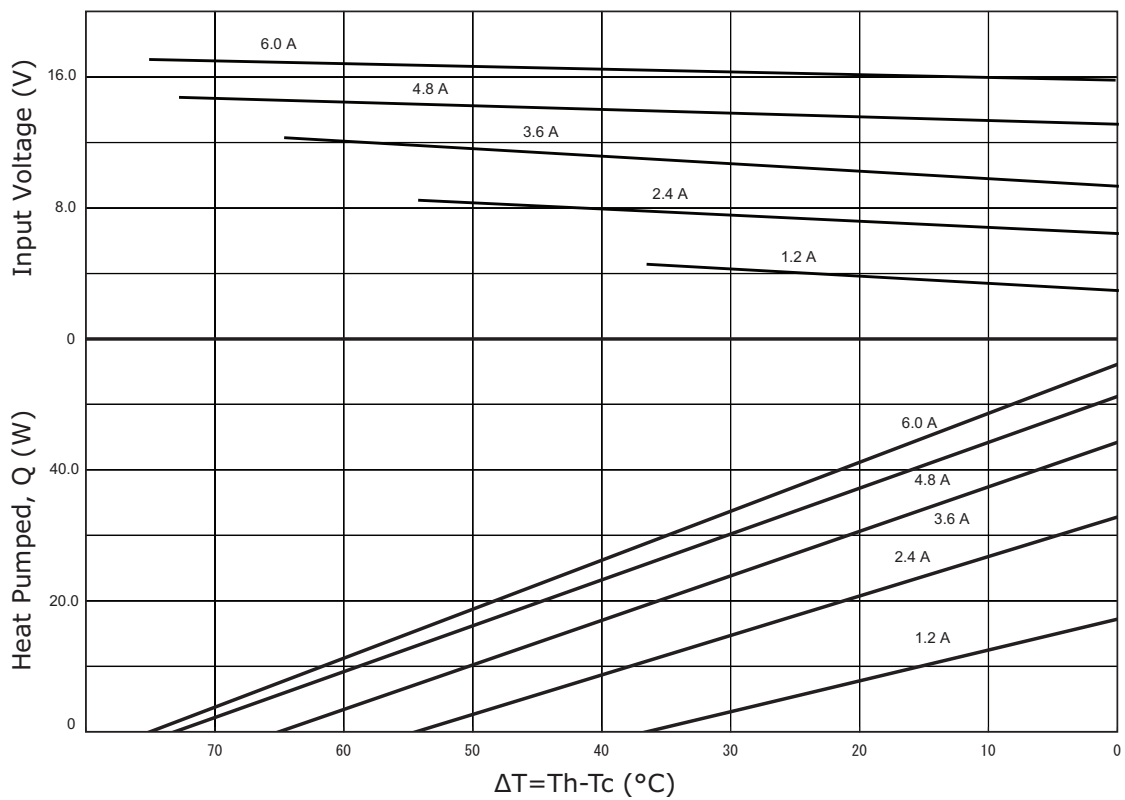
CP60233 PERFORMANCE (Th=50°C)



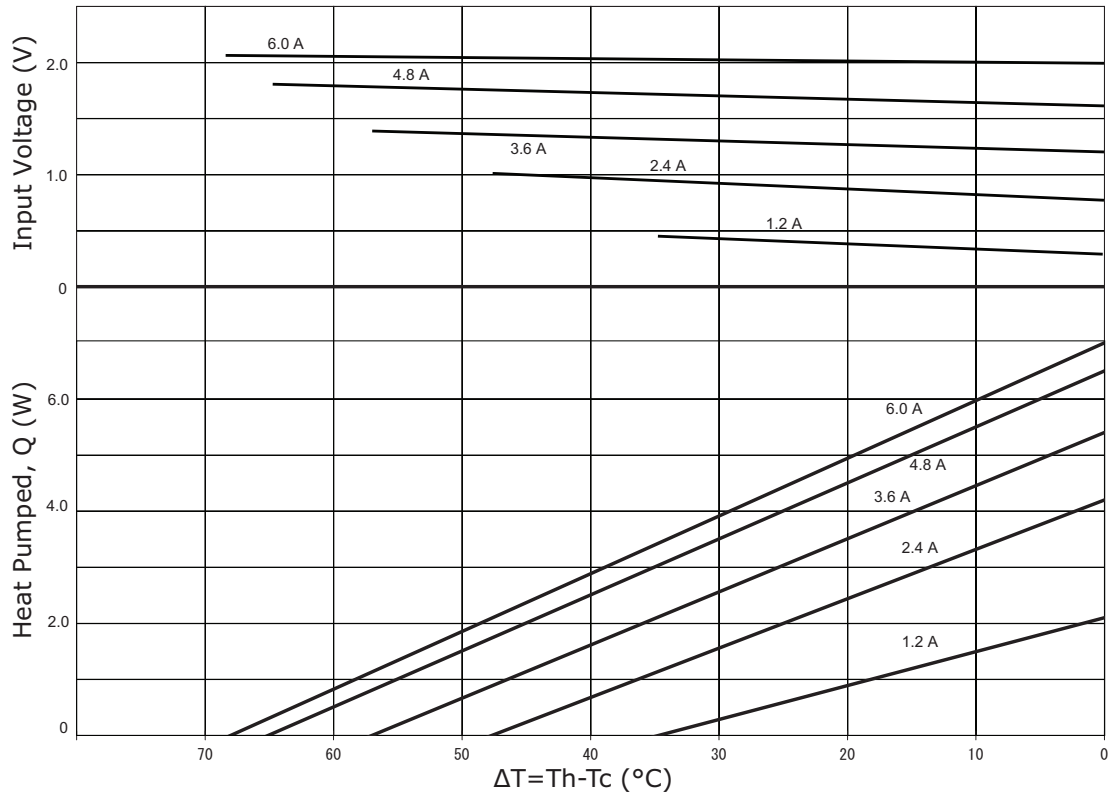
CP60333 PERFORMANCE (Th=27°C)



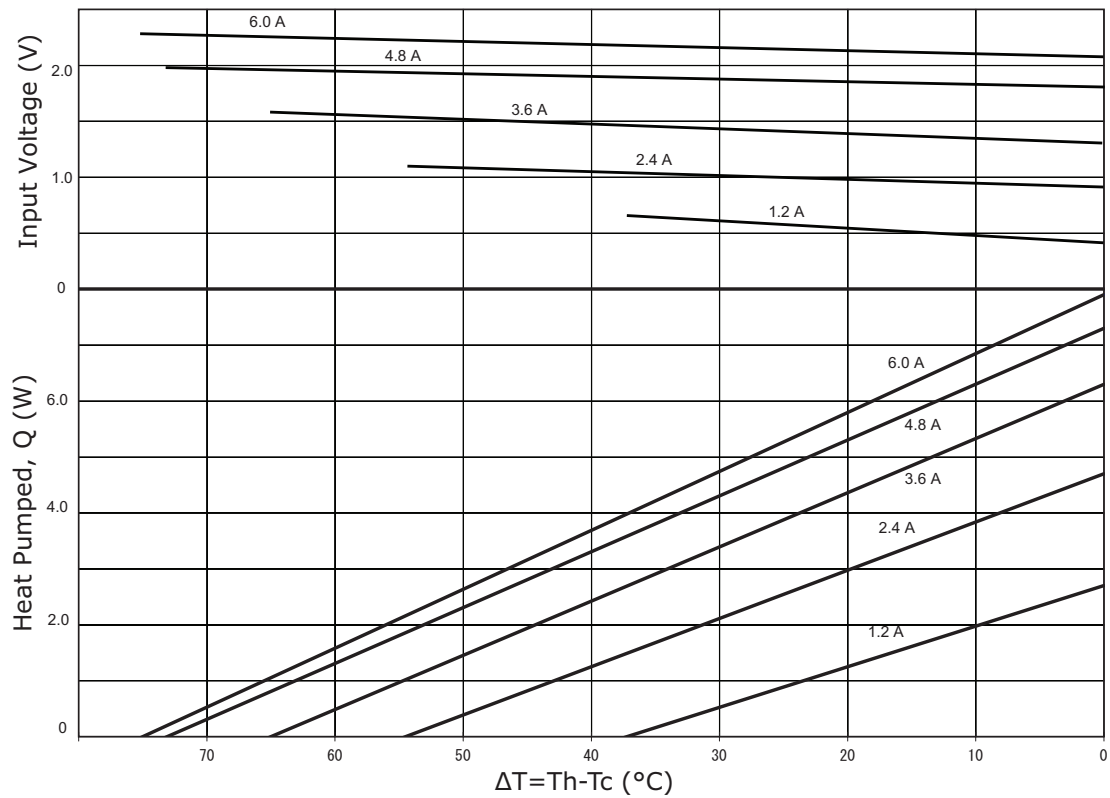
CP60333 PERFORMANCE (Th=50°C)



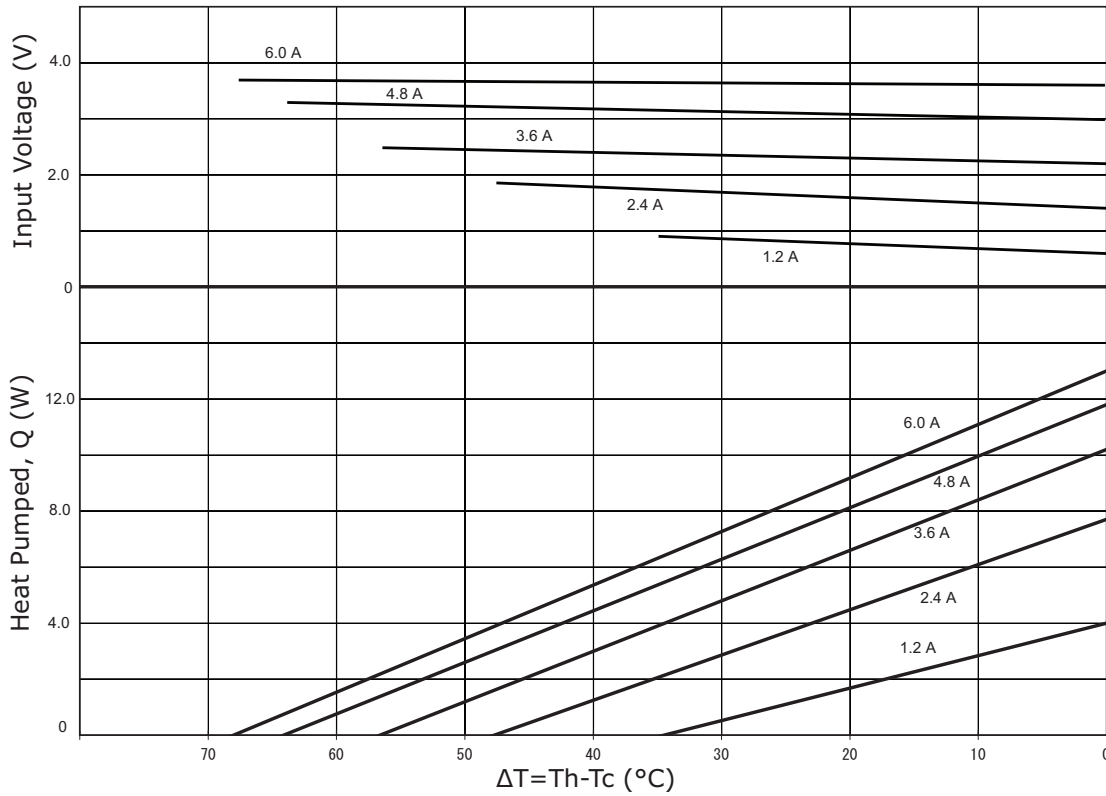
CP60140 PERFORMANCE (Th=27°C)



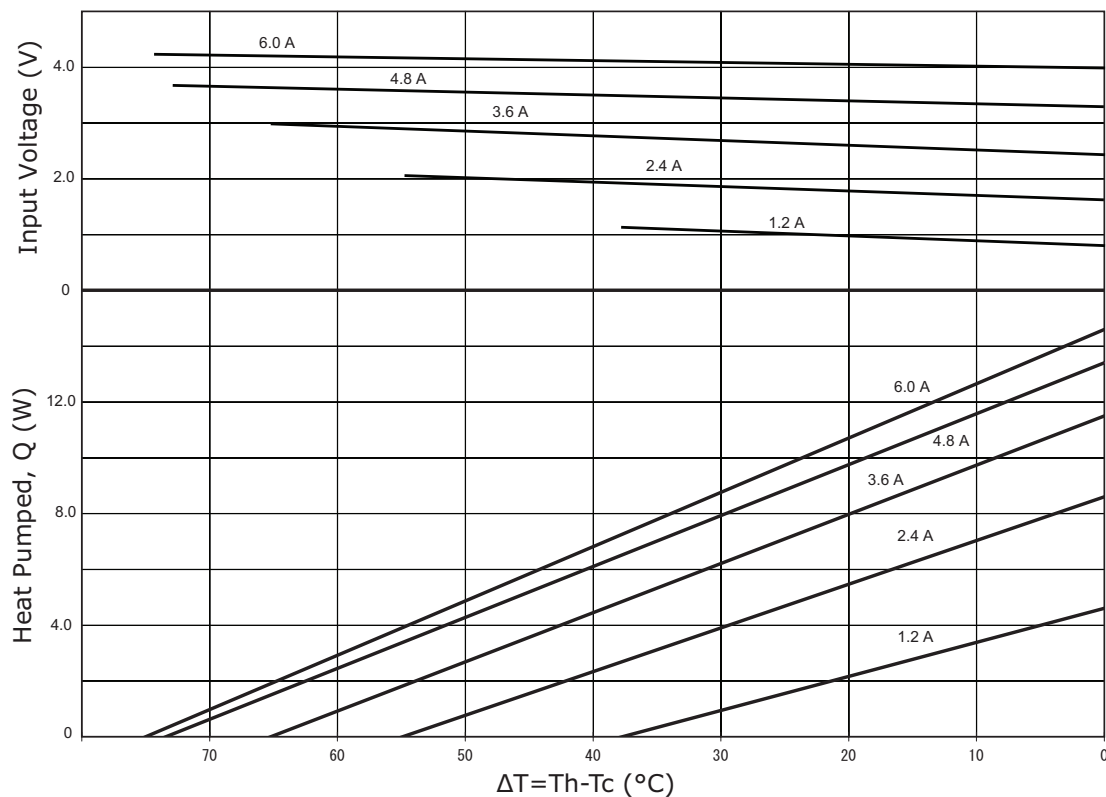
CP60140 PERFORMANCE (Th=50°C)



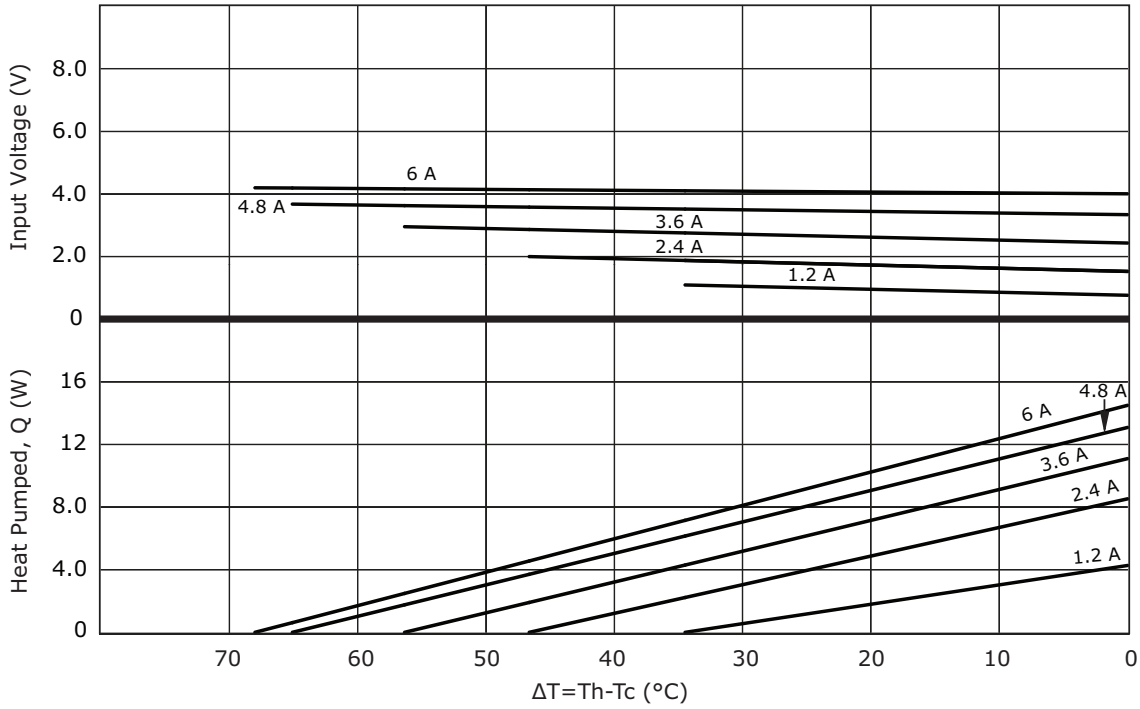
CP60240 PERFORMANCE (Th=27°C)



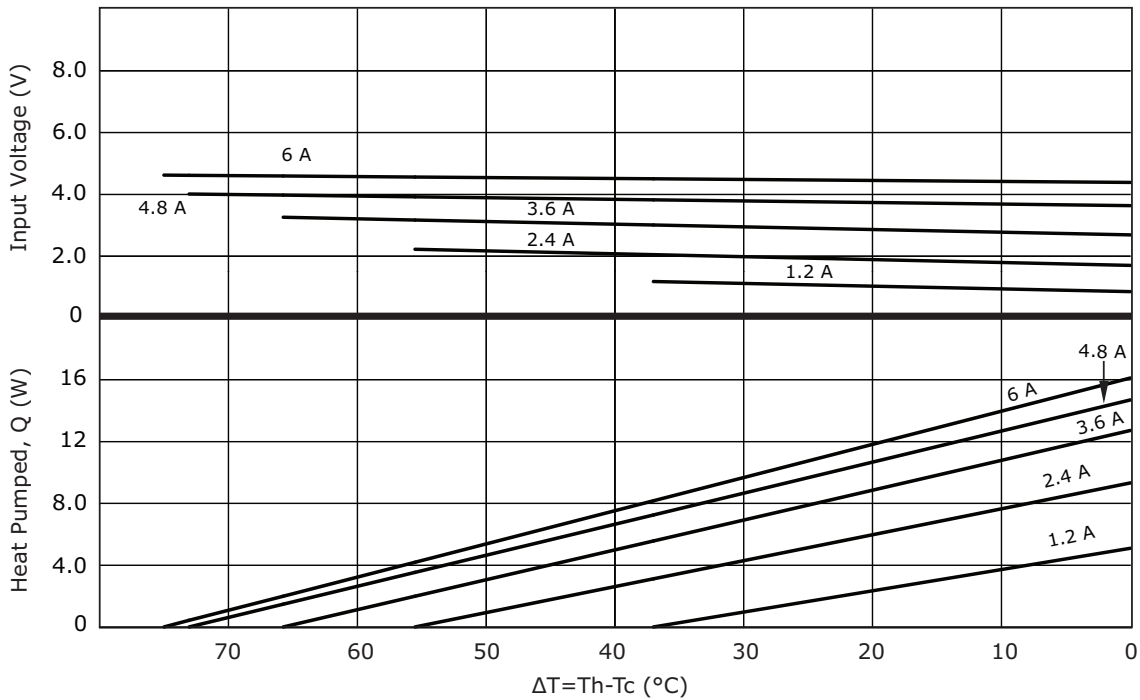
CP60240 PERFORMANCE (Th=50°C)



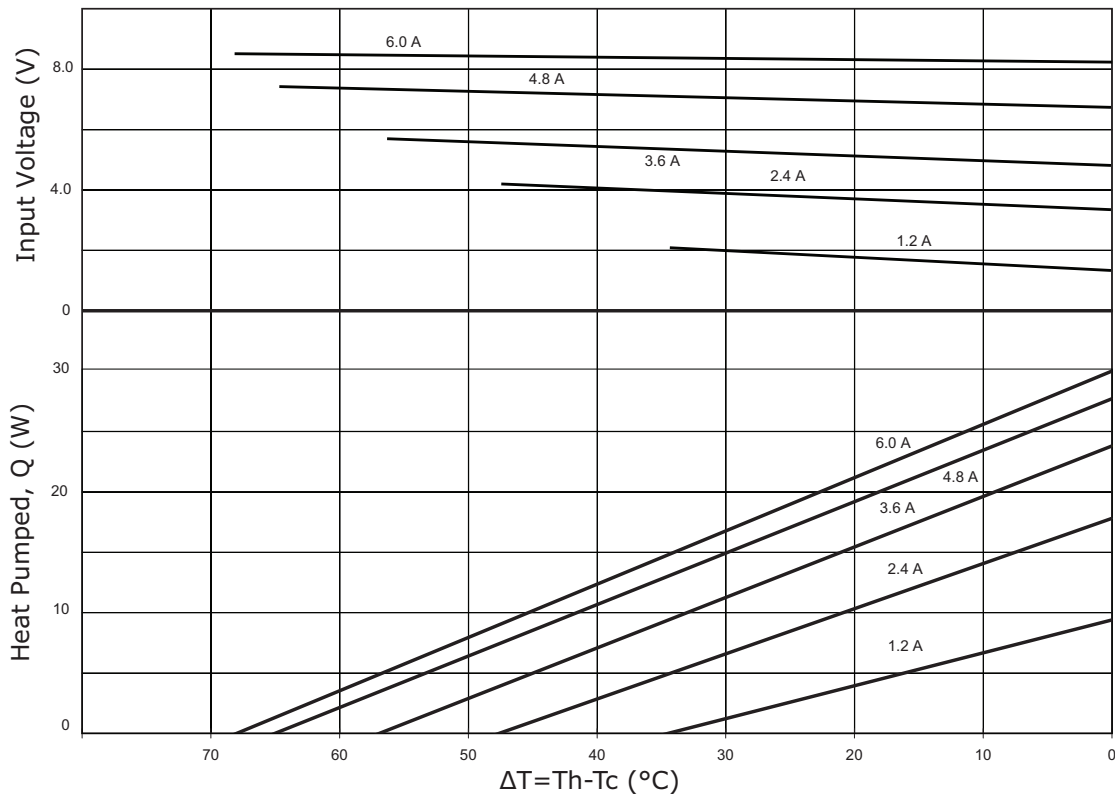
CP60301540 PERFORMANCE (Th=27°C)



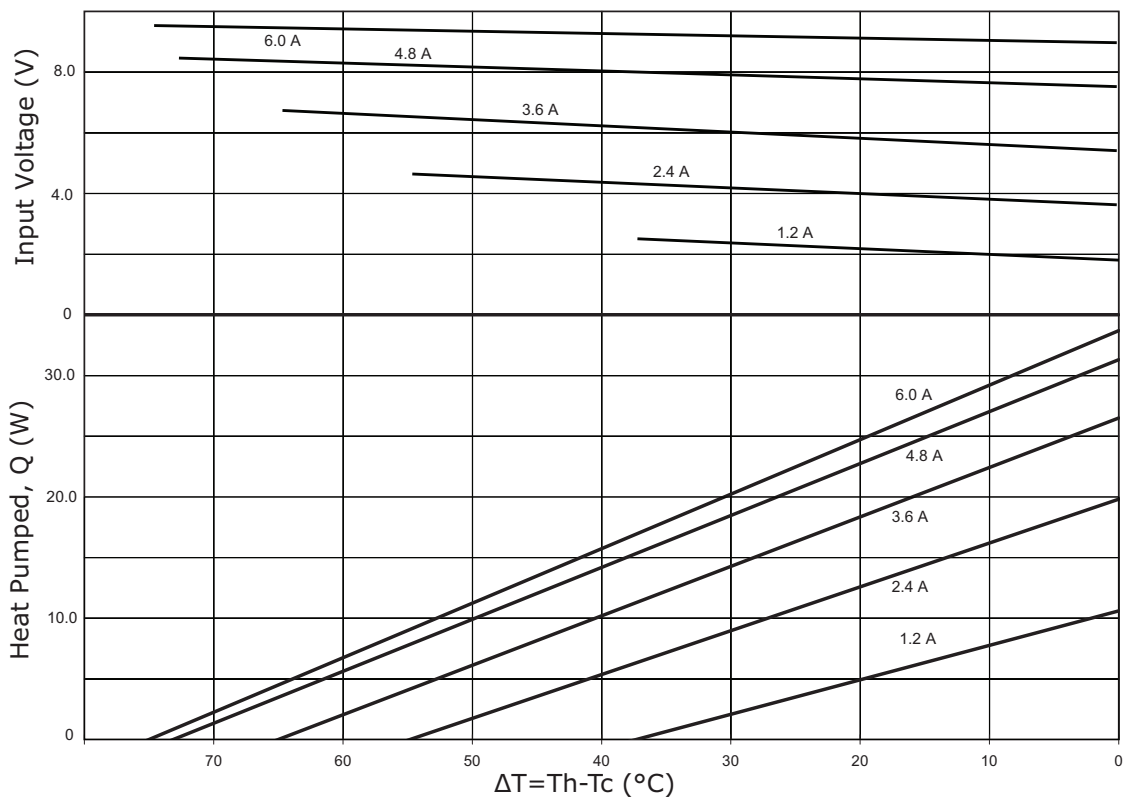
CP60301540 PERFORMANCE (Th=50°C)



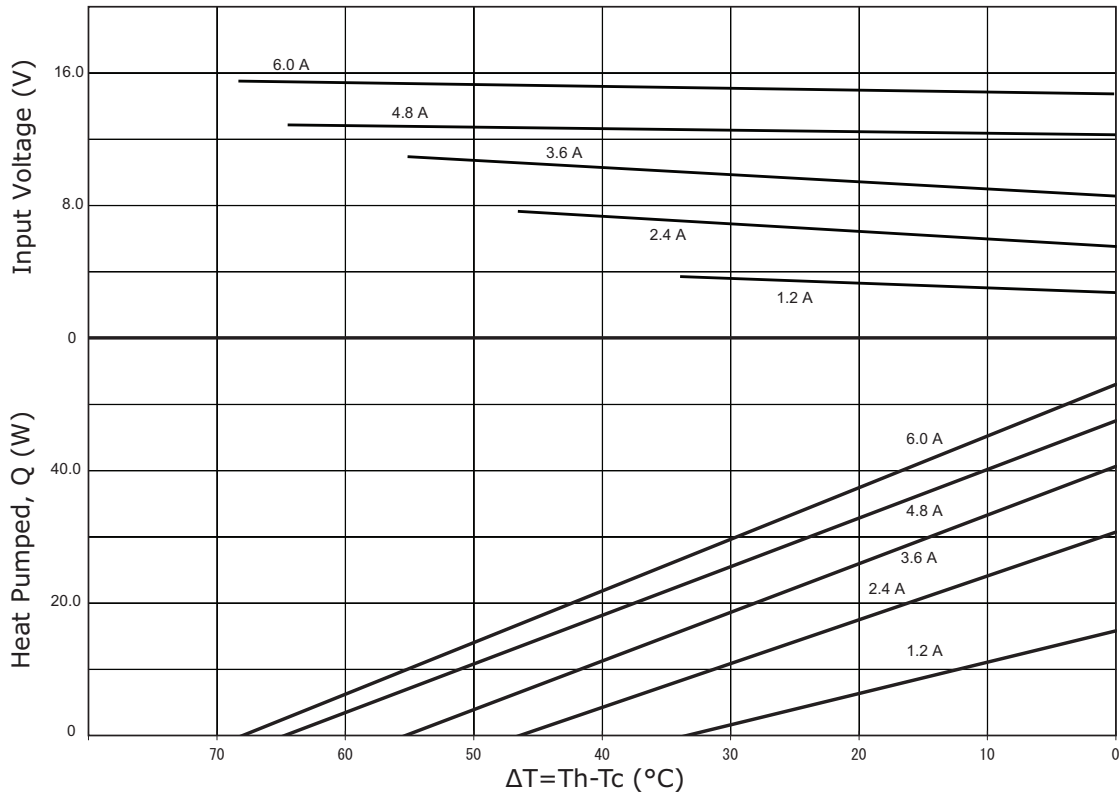
CP60340 PERFORMANCE (Th=27°C)



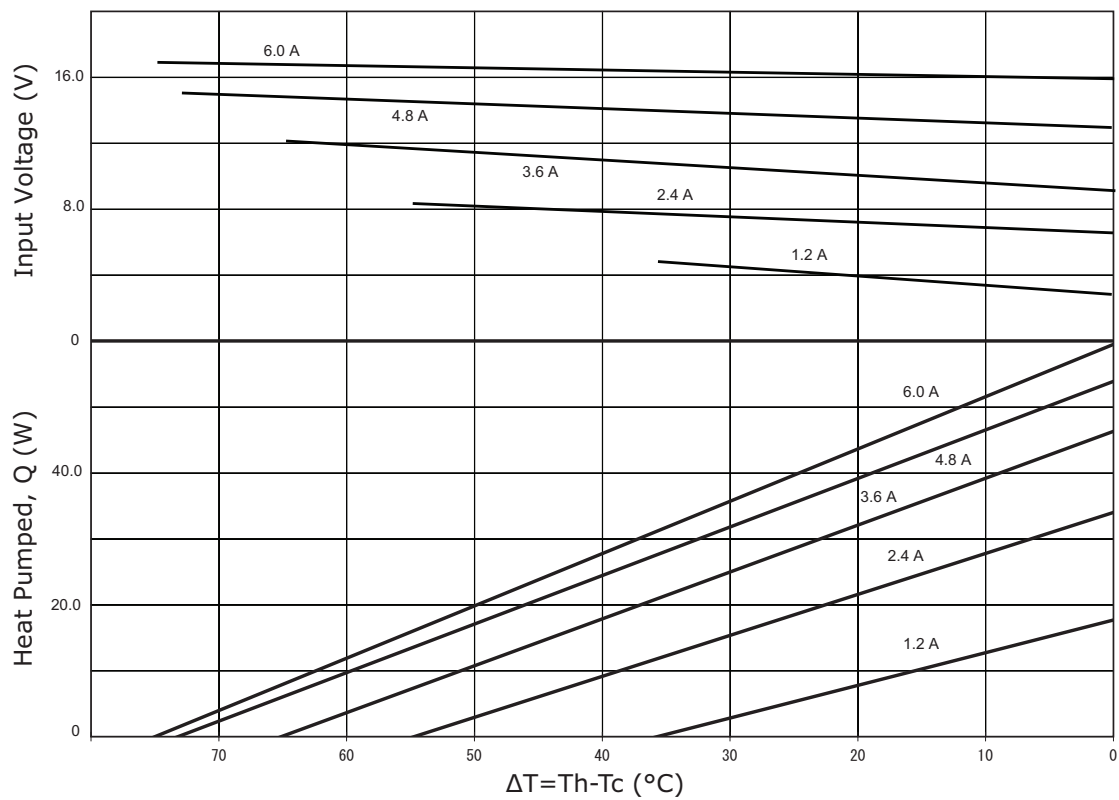
CP60340 PERFORMANCE (Th=50°C)



CP60440 PERFORMANCE (Th=27°C)



CP60440 PERFORMANCE (Th=50°C)



REVISION HISTORY

| rev. | description | date |
|------|---|------------|
| 1.0 | initial release | 09/03/2009 |
| 1.01 | applied new template | 05/08/2012 |
| 1.02 | added new models | 09/09/2016 |
| 1.03 | changed thickness of CP60133, CP60233, CP60333, CP60301540 models | 09/20/2018 |
| 1.04 | brand update | 10/28/2019 |

The revision history provided is for informational purposes only and is believed to be accurate.

CUI DEVICES

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