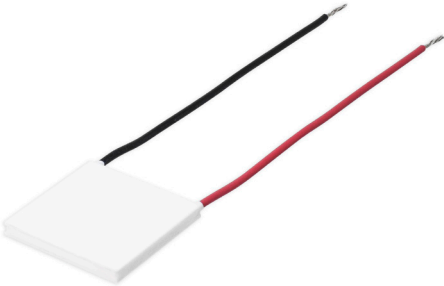




SERIES: CP100 | DESCRIPTION: PELTIER MODULE

FEATURES

- arcTEC™ structure on select models
- enhanced reliability for high thermal cycling
- superior thermal performance
- silicon sealed
- wide ΔT max
- precise temperature control
- solid state construction



MODEL

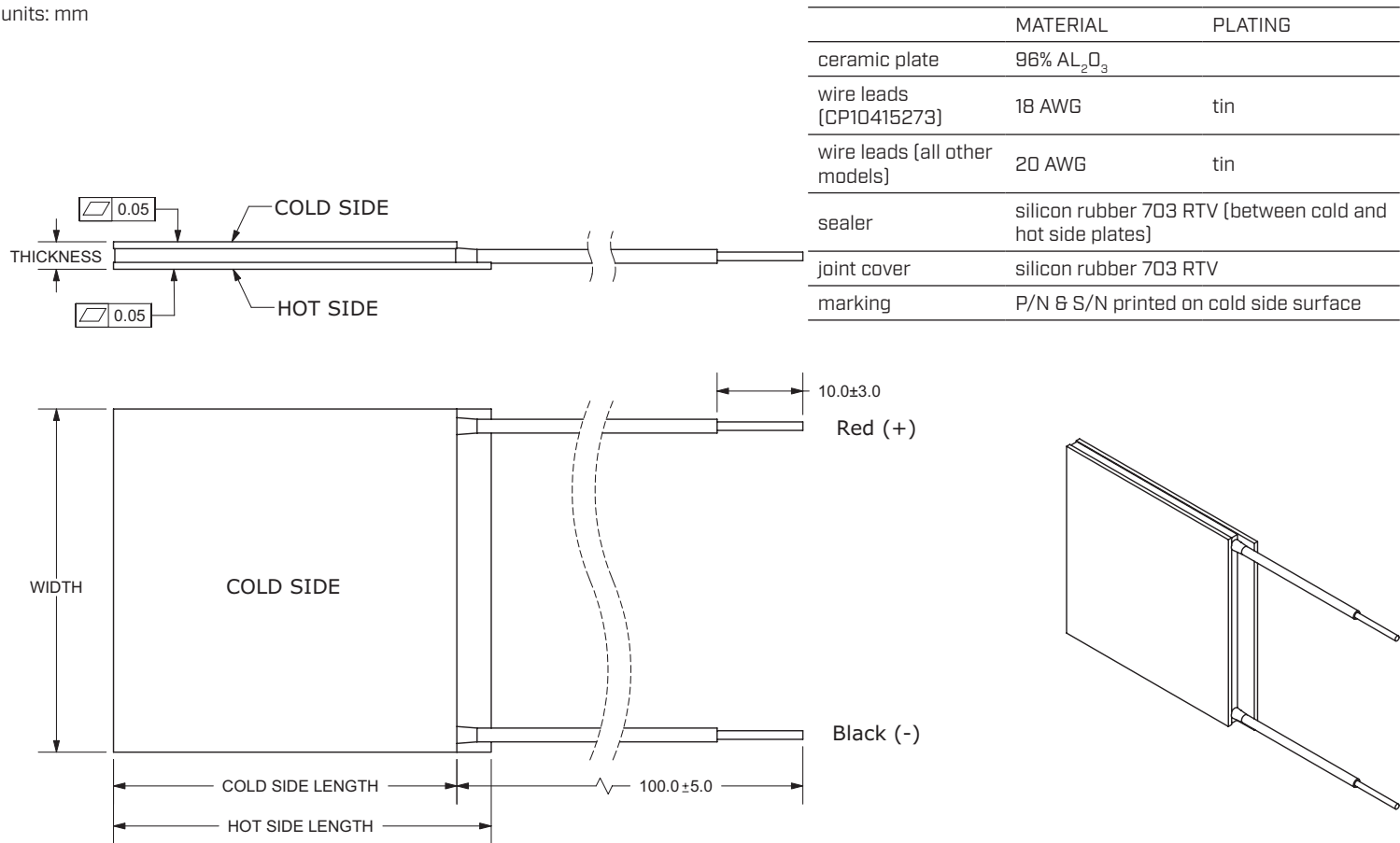
	input voltage ¹ max [Vdc]	input current ² max [A]	internal resistance ³ typ [$\Omega \pm 10\%$]	output Qmax ⁴		output ΔT max ⁵	
				T _h =27°C [W]	T _h =50°C [W]	T _h =27°C [°C]	T _h =50°C [°C]
CP10205033	9.6	10	0.71	56.2	62	68	75
CP103033 ⁶	11.8	10	0.88	69	75	70	77
CP10304033 ⁶	15	10	1.13	89	97	70	77
CP10415273 ⁶	4.9	10	0.37	28	30	70	77
CP105559415 ⁶	24.6	10	1.82	140	154	70	77

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)
6. Designed with arcTEC™ structure.

SPECIFICATIONS

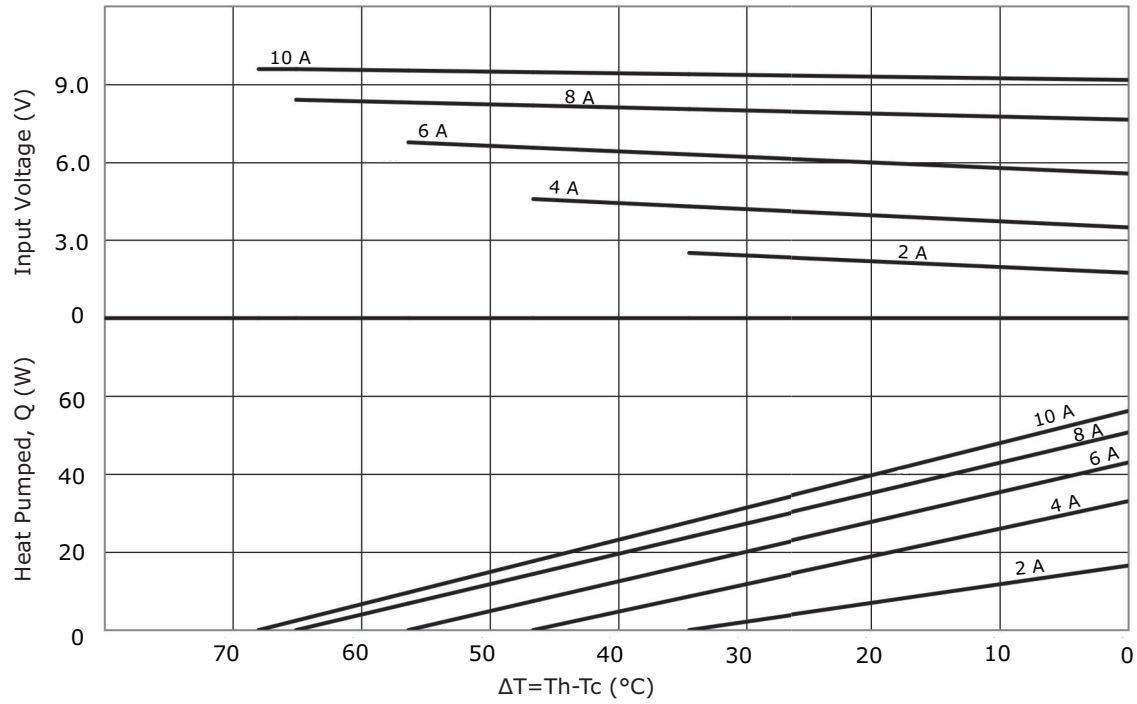
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
RoHS	yes				

MECHANICAL DRAWING

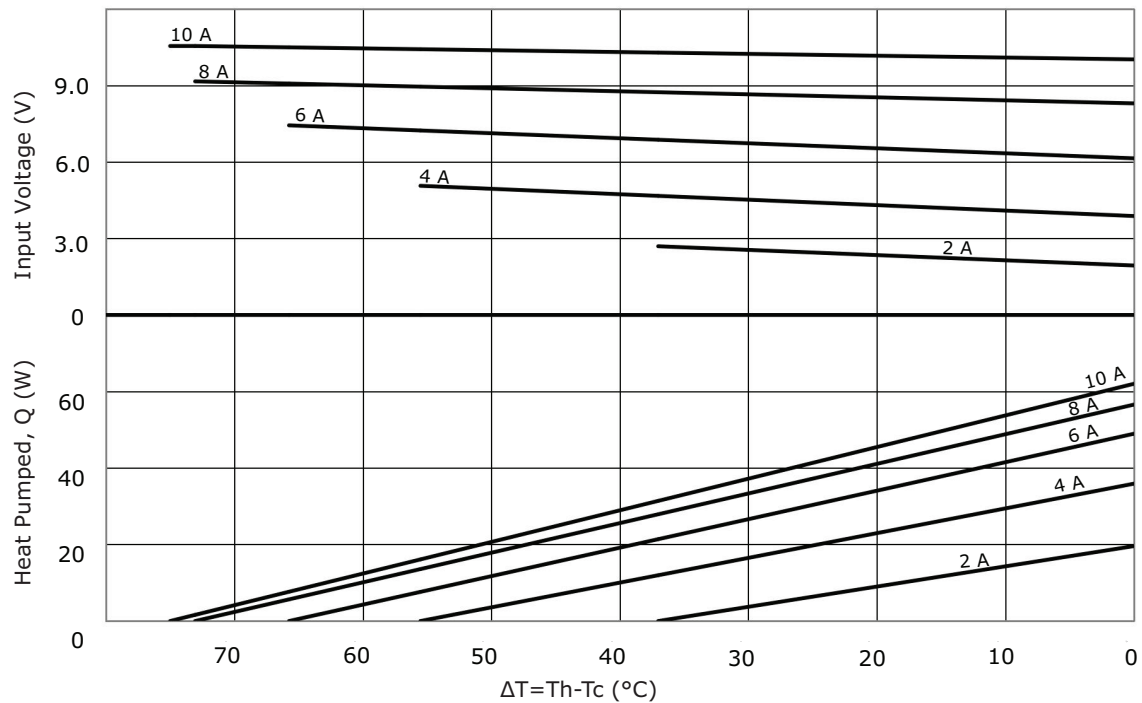


MODEL NO.	HOT SIDE LENGTH [mm]	COLD SIDE LENGTH [mm]	WIDTH [mm]	THICKNESS [mm]
CP10205033	20 ±0.3	20 ±0.3	50 ±0.3	3.3 ±0.1
CP103033	30 ±0.3	30 ±0.3	30 ±0.3	3.3 ±0.1
CP10304033	30 ±0.3	30 ±0.3	40 ±0.3	3.3 ±0.1
CP10415273	57 ±0.3	52 ±0.3	41 ±0.3	7.3 ±0.1
CP105559415	59 ±0.3	55 ±0.3	55 ±0.3	4.15 ±0.1

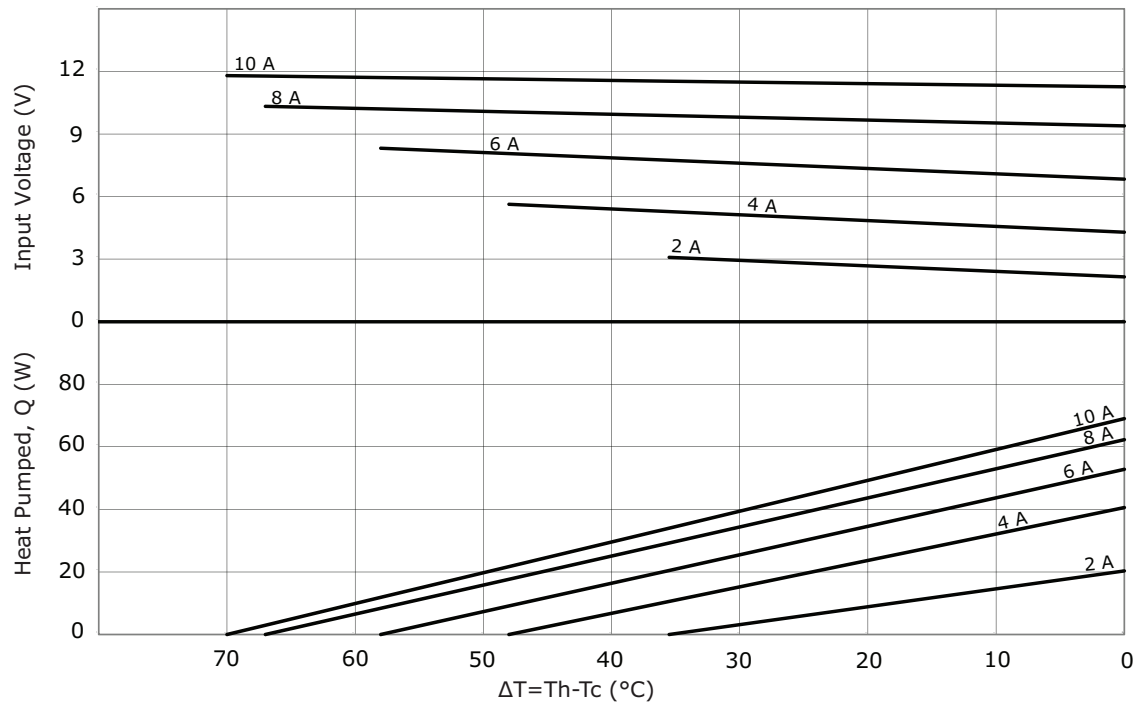
CP10205033 PERFORMANCE (Th=27°C)



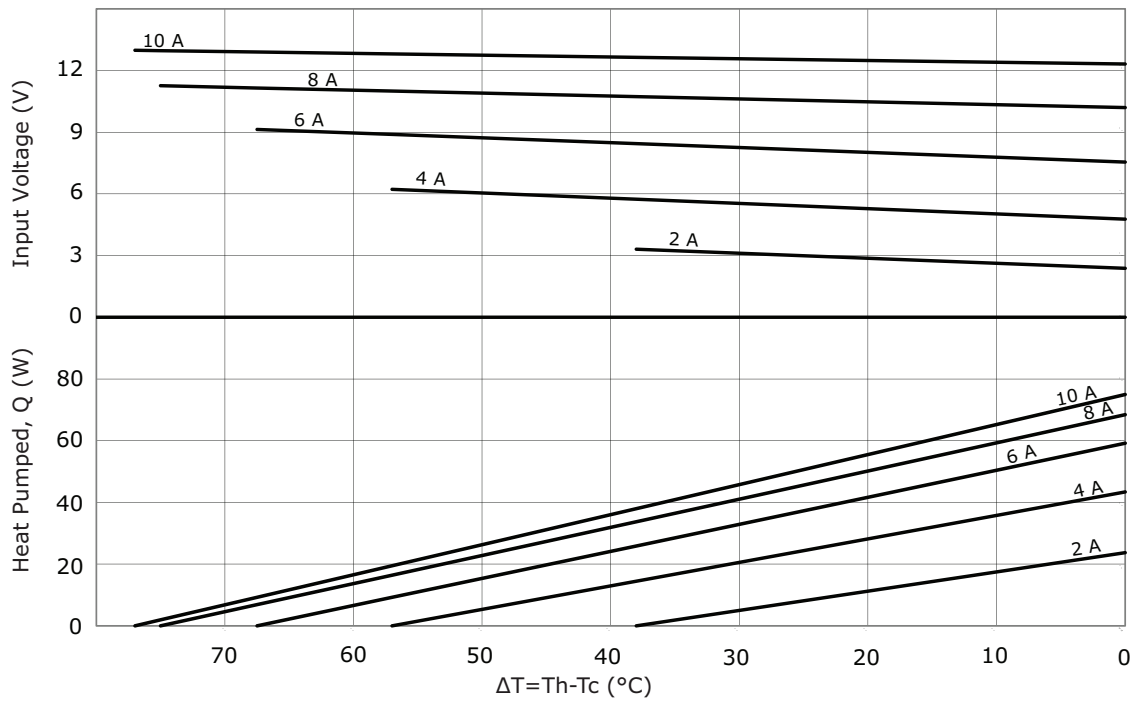
CP10205033 PERFORMANCE (Th=50°C)



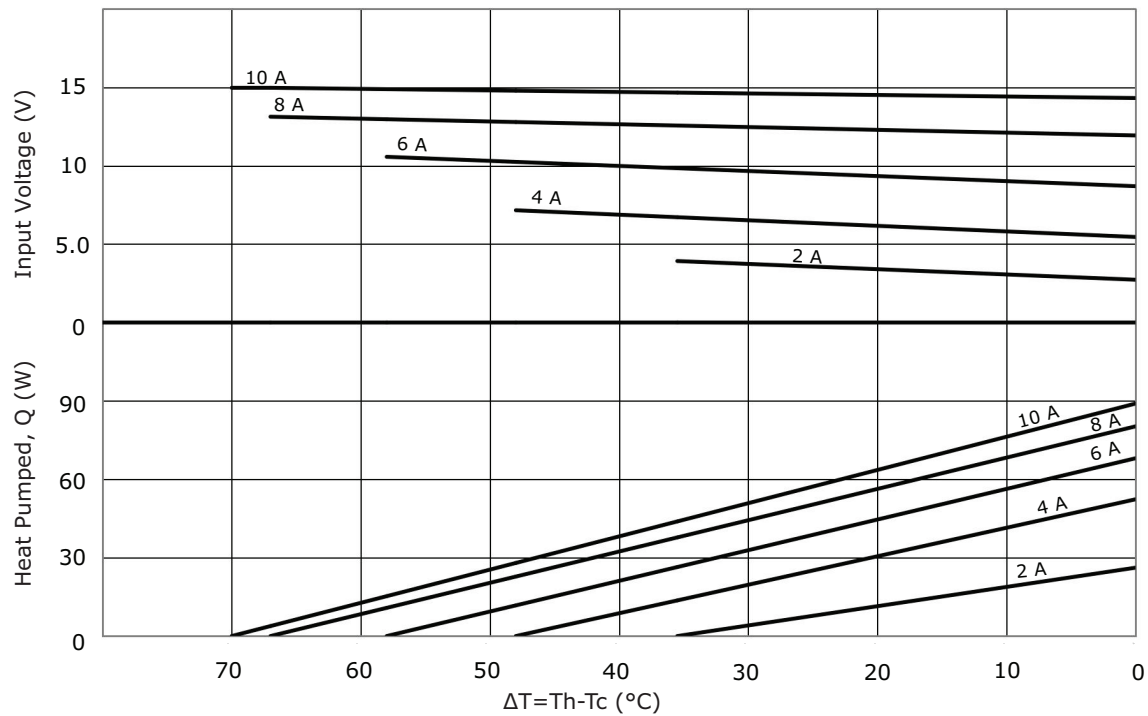
CP103033 PERFORMANCE (Th=27°C)



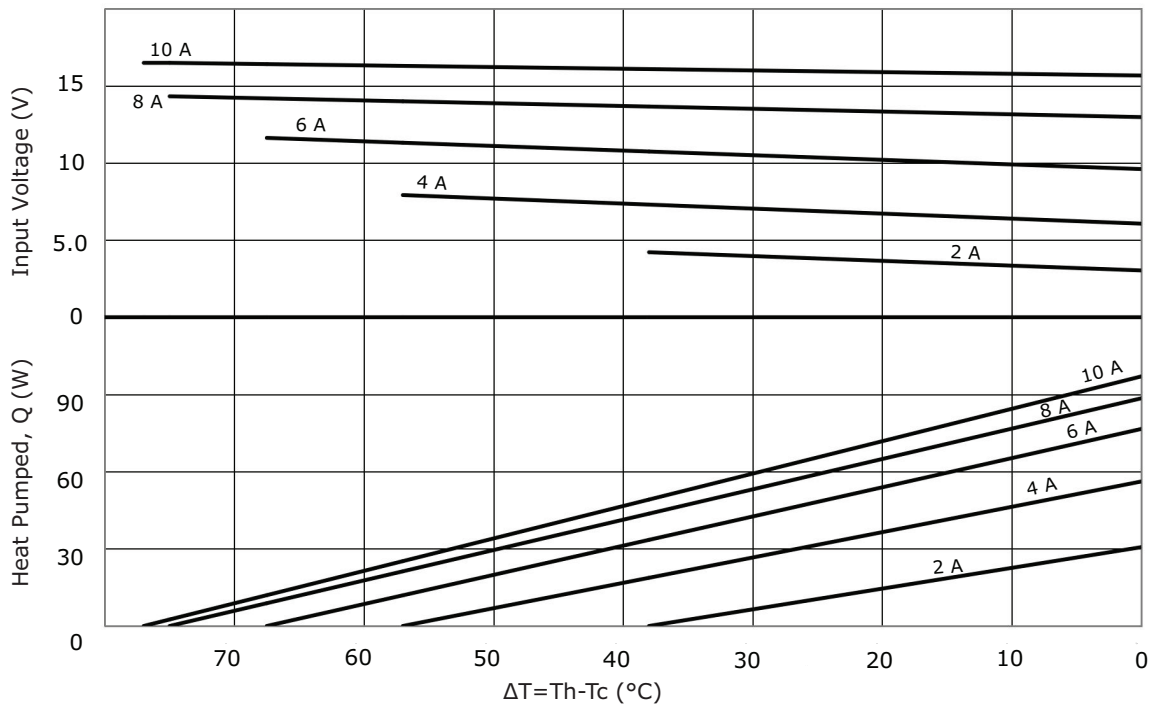
CP103033 PERFORMANCE (Th=50°C)



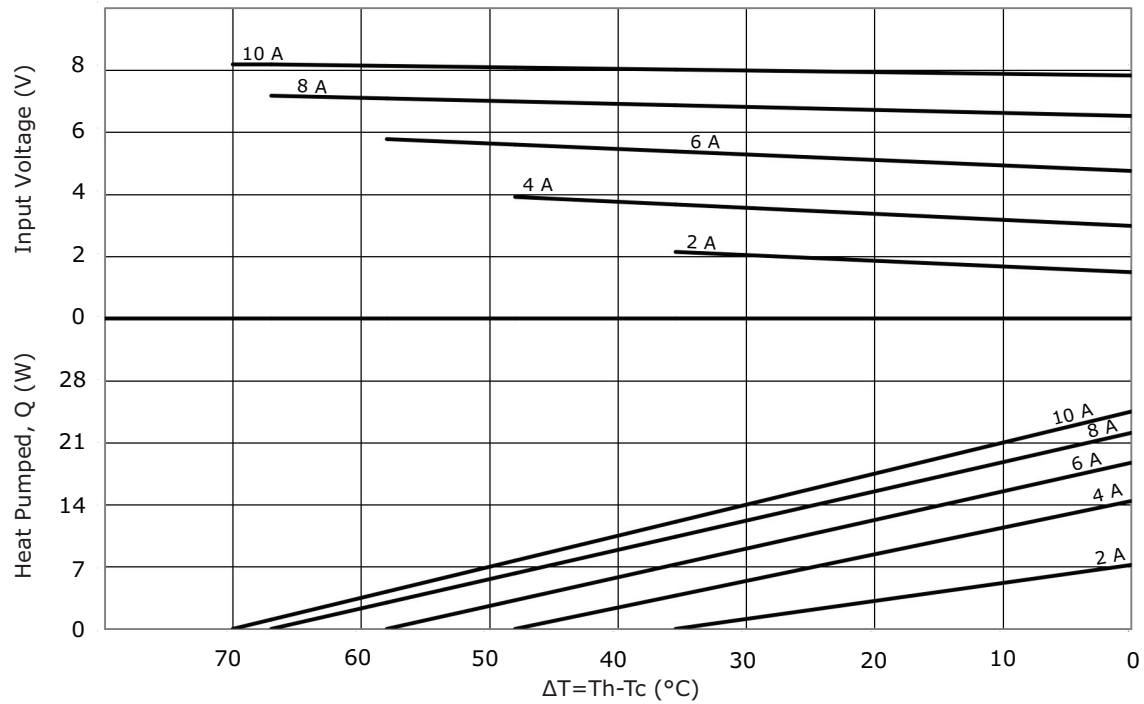
CP10304033 PERFORMANCE (Th=27°C)



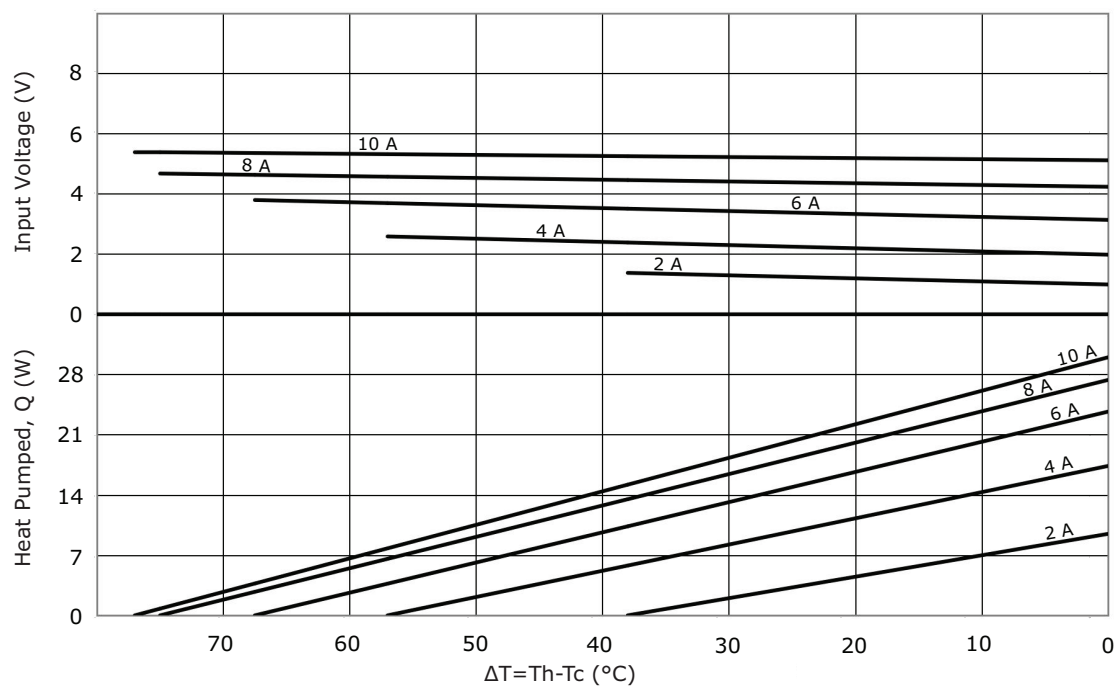
CP10304033 PERFORMANCE (Th=50°C)



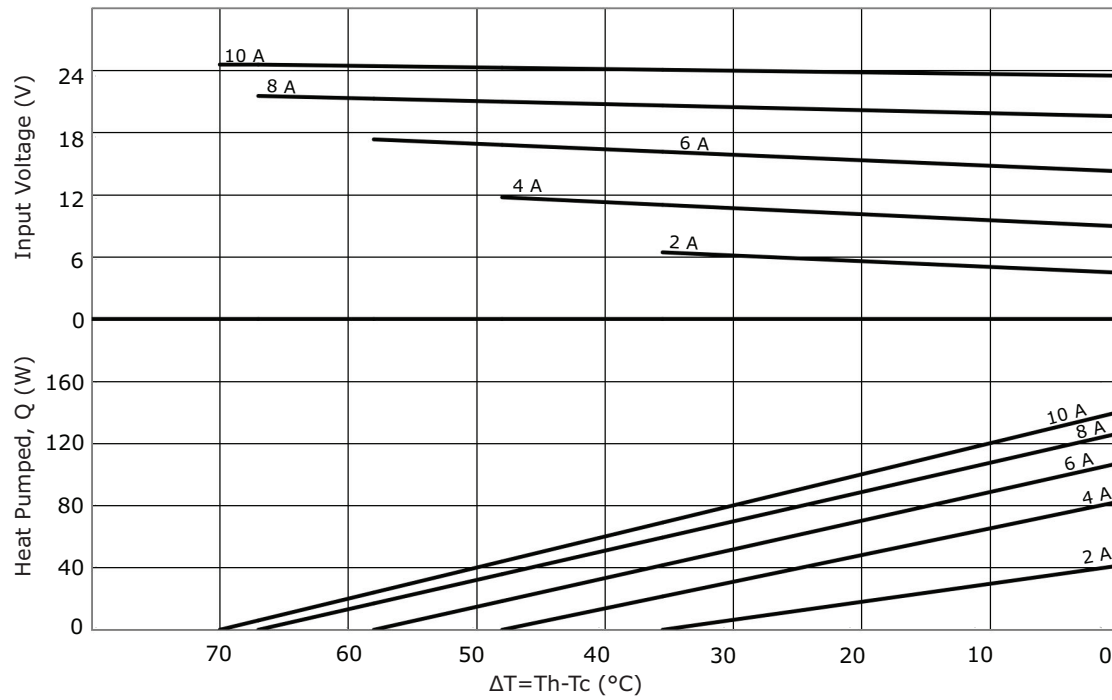
CP10415273 PERFORMANCE (Th=27°C)



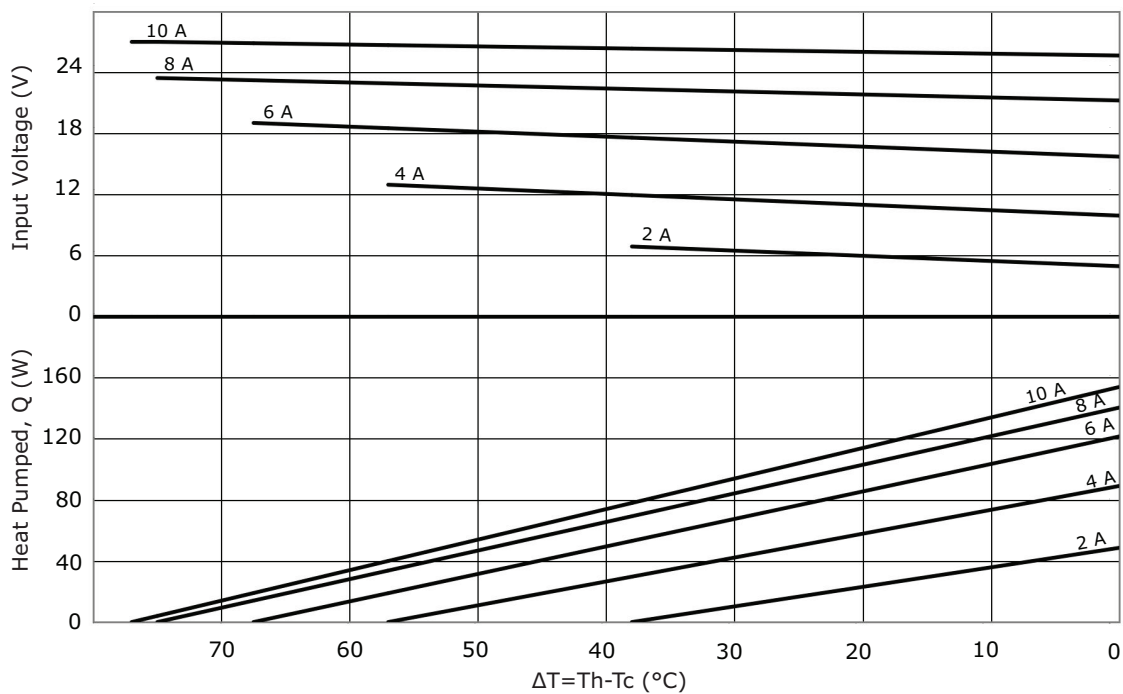
CP10415273 PERFORMANCE (Th=50°C)



CP105559415 PERFORMANCE (Th=27°C)



CP105559415 PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	11/05/2019
1.01	added models CP10205033 & CP10304033	11/09/2020
1.02	logo, datasheet style update	08/05/2022
1.03	CUI Devices rebranded to Same Sky	09/12/2024

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



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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