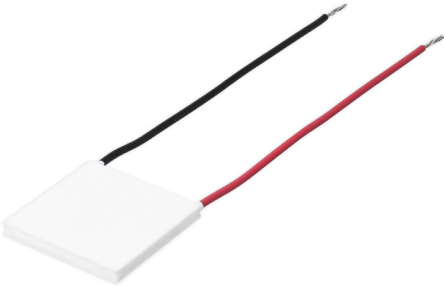




SERIES: CP100 | **DESCRIPTION:** PELTIER MODULE

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

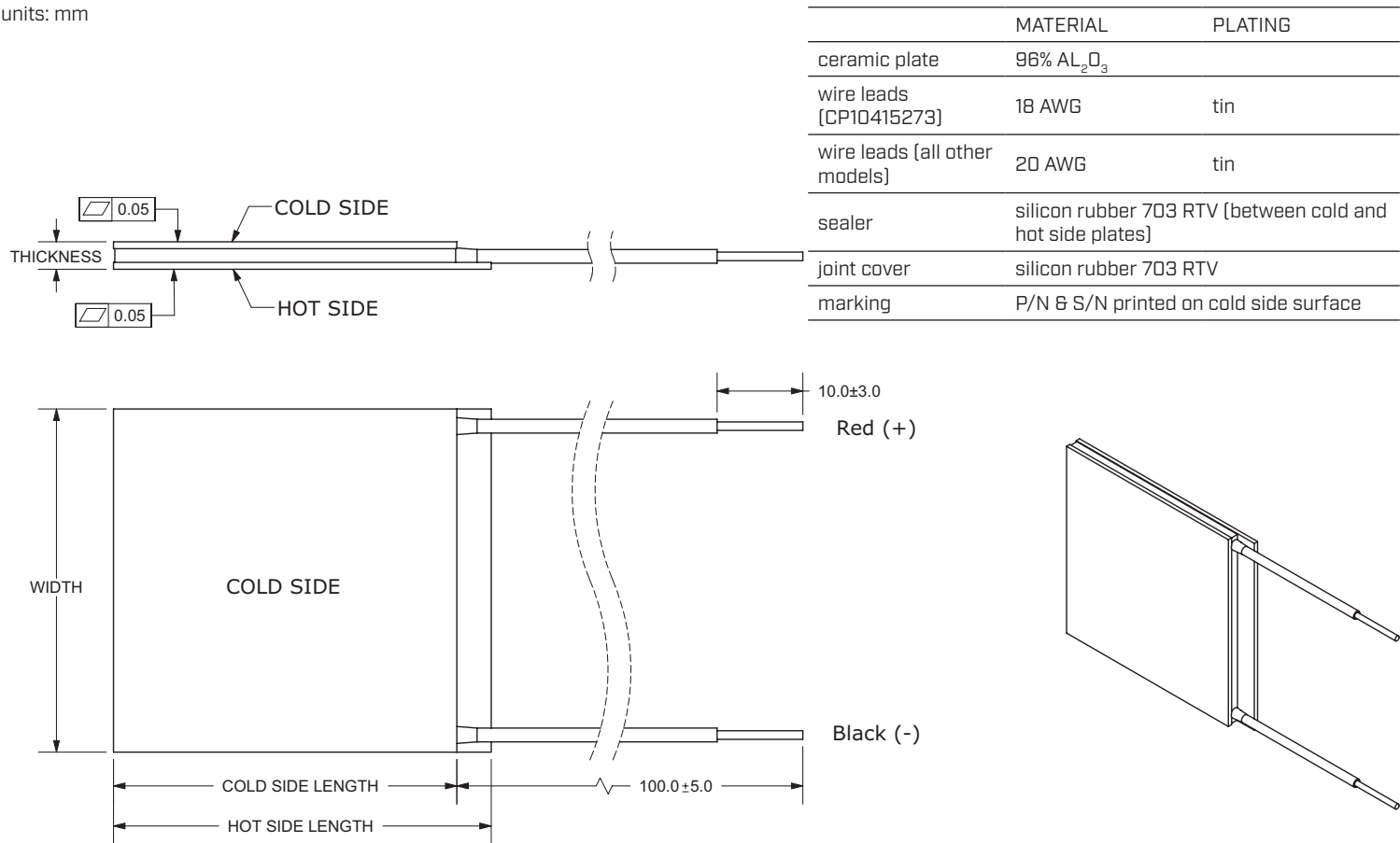
	input voltage ¹ max [Vdc]	input current ² max [A]	internal resistance ³ typ [$\Omega \pm 10\%$]	output Qmax ⁴		output ΔT max ⁵	
				T _h =27°C [W]	T _h =50°C [W]	T _h =27°C [°C]	T _h =50°C [°C]
CP10205033	9.6	10	0.71	56.2	62	68	75
CP103033 ⁶	11.8	10	0.88	69	75	70	77
CP10304033 ⁶	15	10	1.13	89	97	70	77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

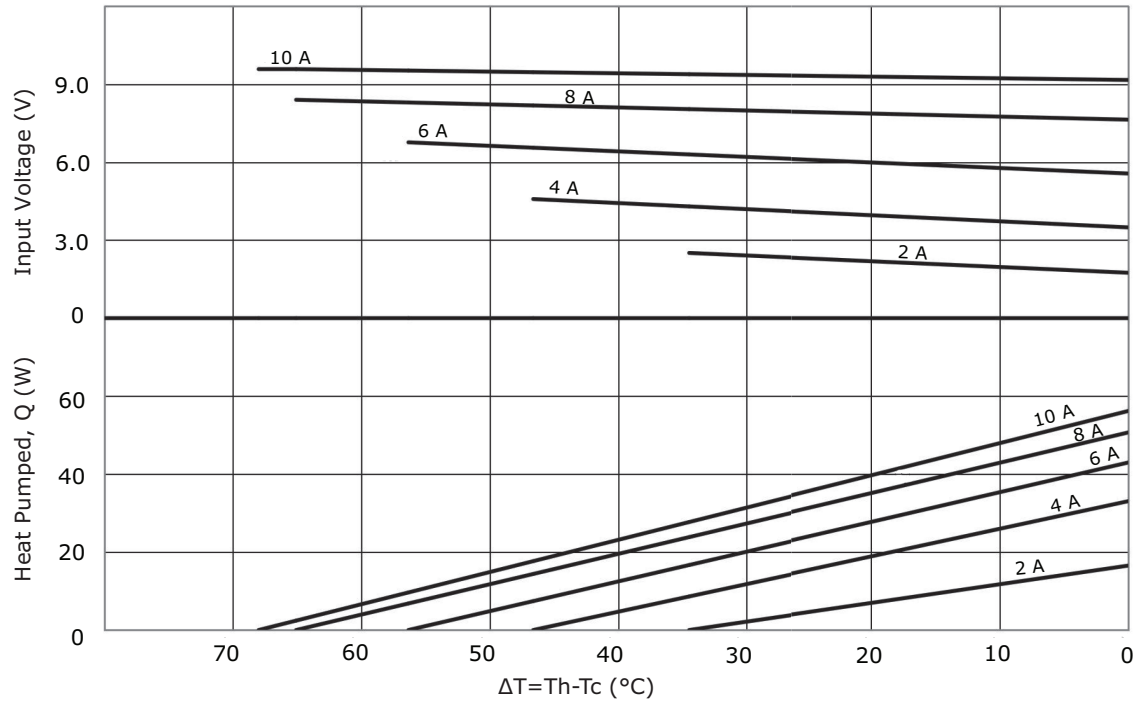
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
RoHS	yes				

MECHANICAL DRAWING

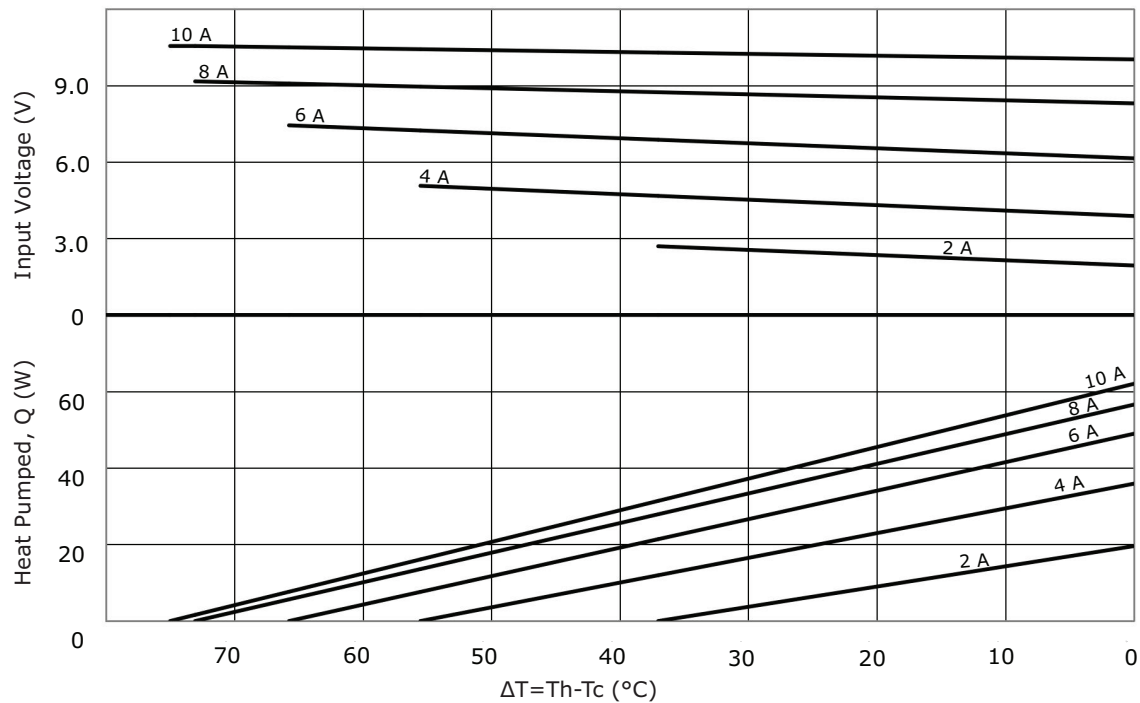


MODEL NO.	HOT SIDE LENGTH [mm]	COLD SIDE LENGTH [mm]	WIDTH [mm]	THICKNESS [mm]
CP10205033	20 ±0.3	20 ±0.3	50 ±0.3	3.3 ±0.1
CP103033	30 ±0.3	30 ±0.3	30 ±0.3	3.3 ±0.1
CP10304033	30 ±0.3	30 ±0.3	40 ±0.3	3.3 ±0.1
CP10415273	57 ±0.3	52 ±0.3	41 ±0.3	7.3 ±0.1
CP105559415	59 ±0.3	55 ±0.3	55 ±0.3	4.15 ±0.1

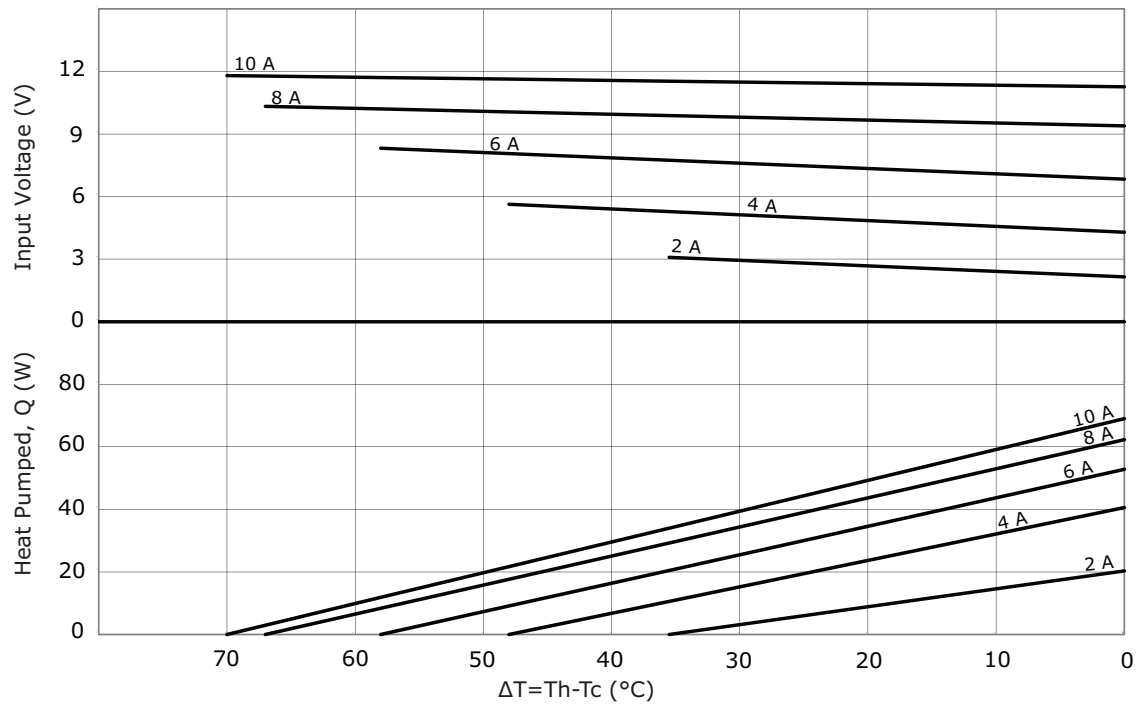
CP10205033 PERFORMANCE (Th=27°C)



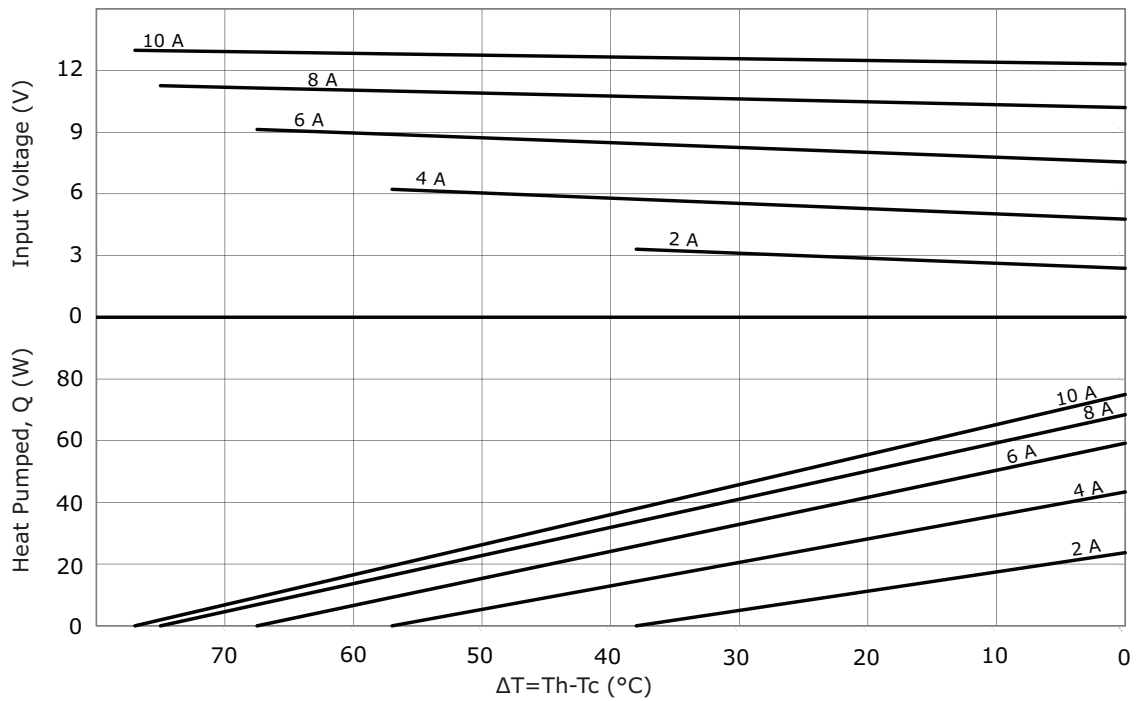
CP10205033 PERFORMANCE (Th=50°C)



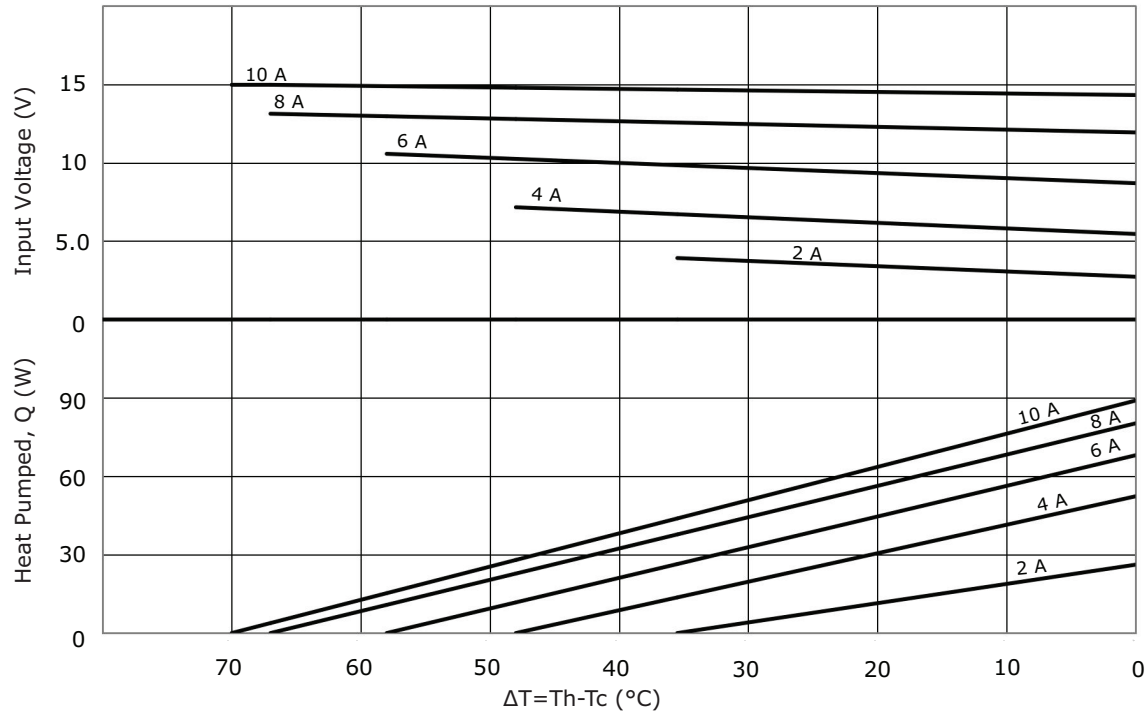
CP103033 PERFORMANCE (Th=27°C)



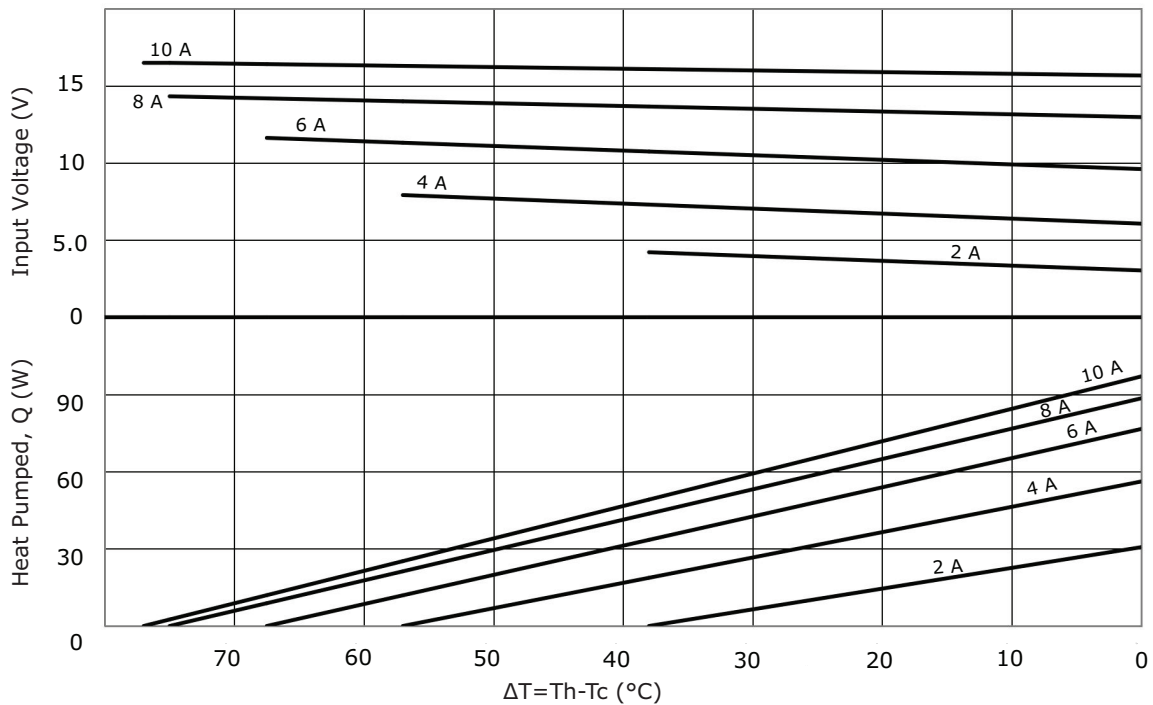
CP103033 PERFORMANCE (Th=50°C)



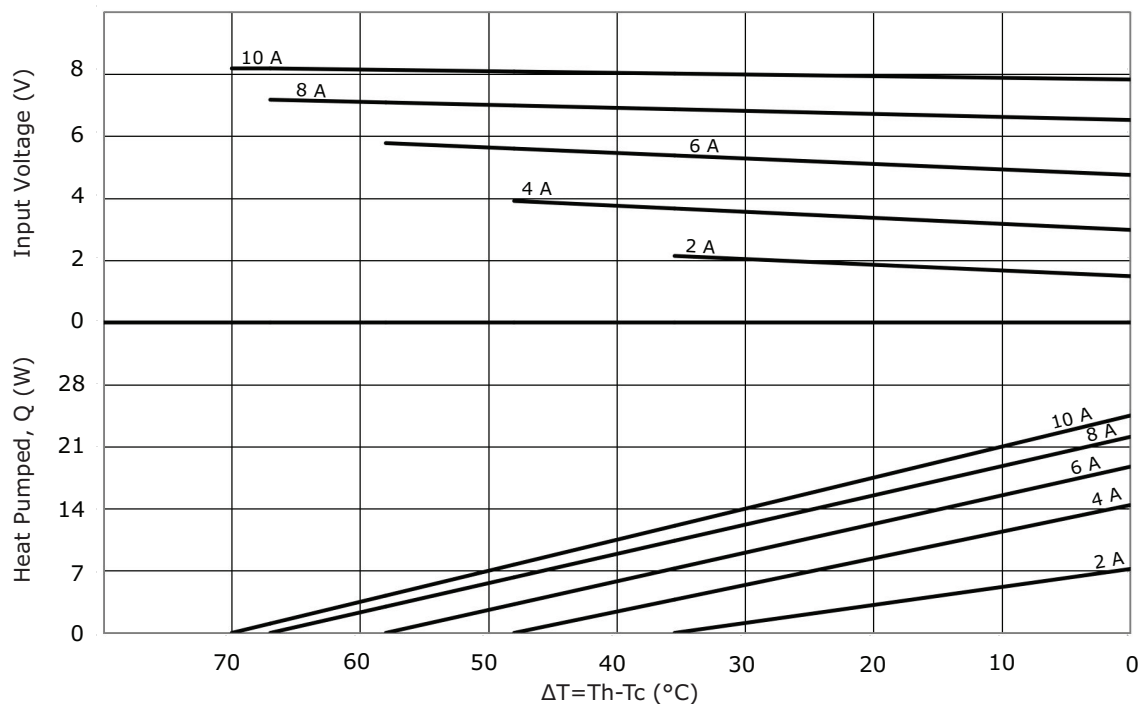
CP10304033 PERFORMANCE (Th=27°C)



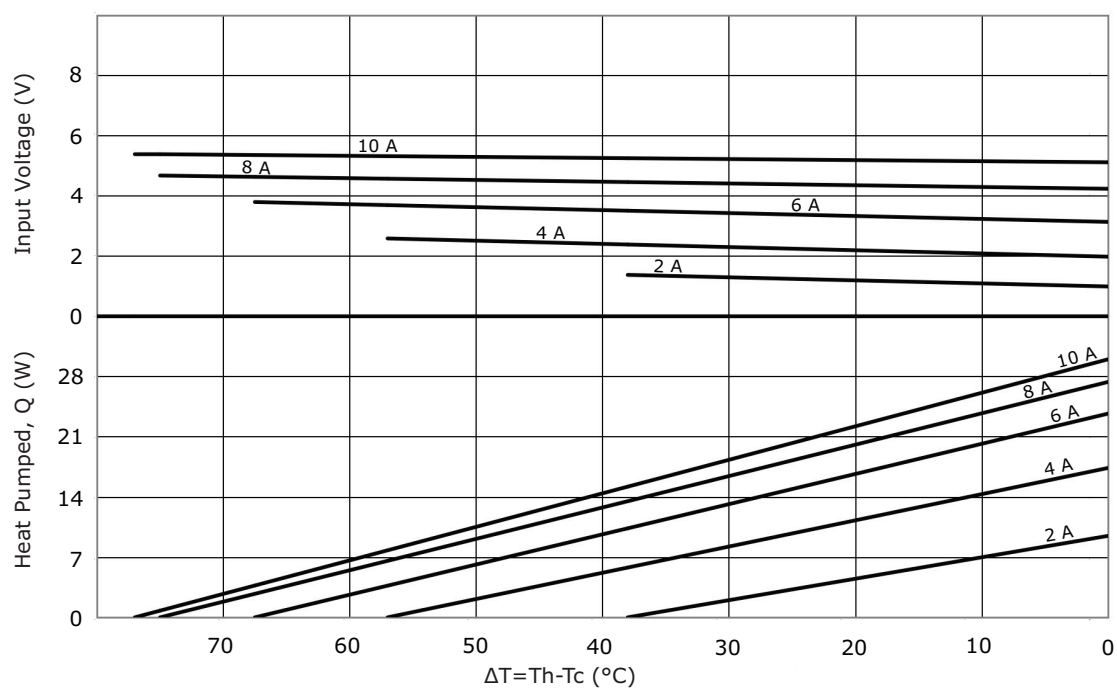
CP10304033 PERFORMANCE (Th=50°C)



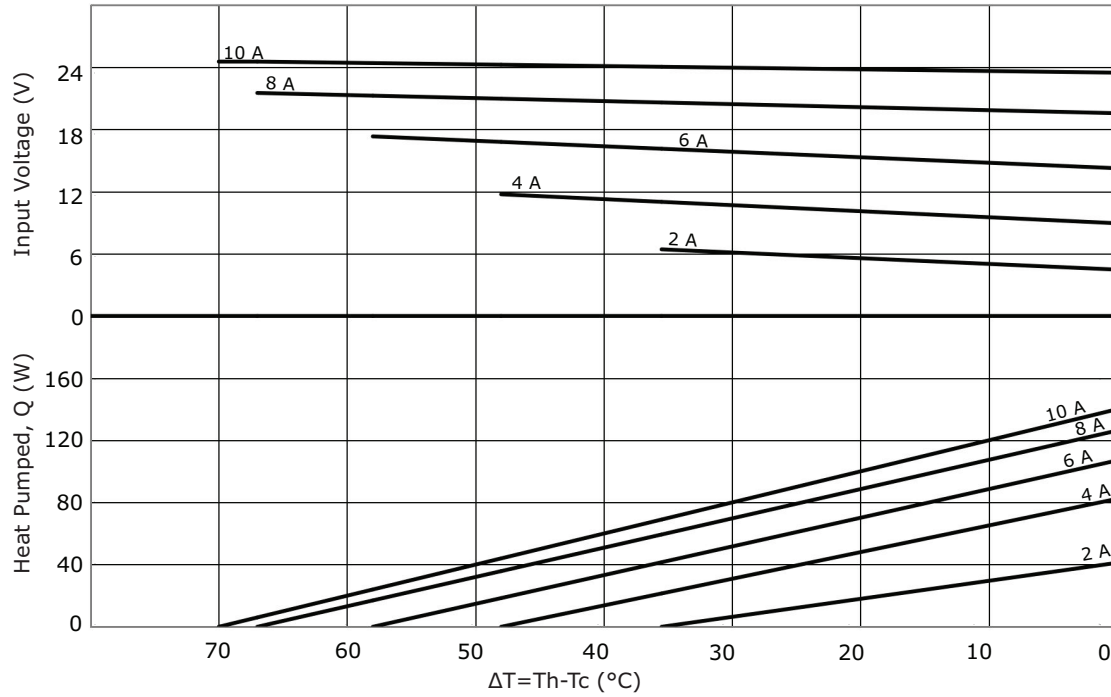
CP10415273 PERFORMANCE (Th=27°C)



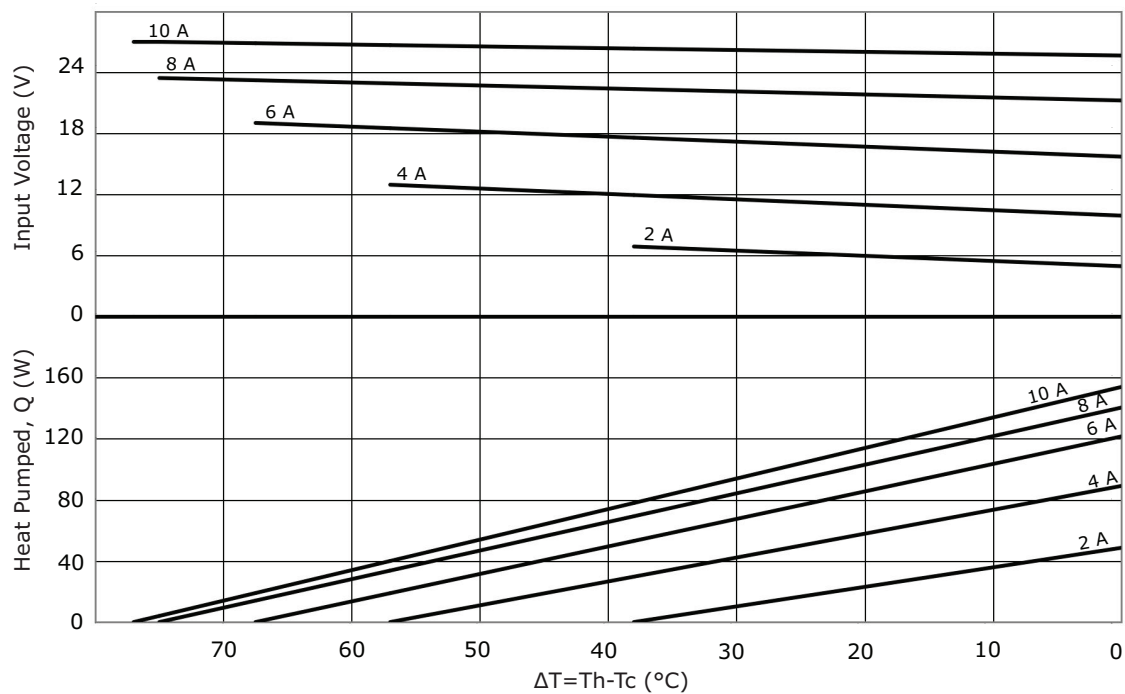
CP10415273 PERFORMANCE (Th=50°C)



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.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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