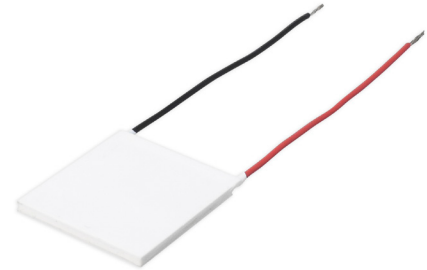


SERIES: CP110 | DESCRIPTION: PELTIER MODULE

FEATURES

- arcTEC™ structure
- enhanced reliability for high thermal cycling
- superior thermal performance
- silicon sealed
- wide ΔT_{max}
- precise temperature control
- solid state construction



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)
CP1130325	11.8	11.0	0.9	74.7	82	68	75
CP1140203	7.6	11.0	0.53	48	52	70	77
CP11404432	24.1	11.0	1.65	156	171	70	77
CP115035335	16.8	11.0	1.18	106	116	70	77
CP115559405	24.6	11.0	1.66	154	169	70	77

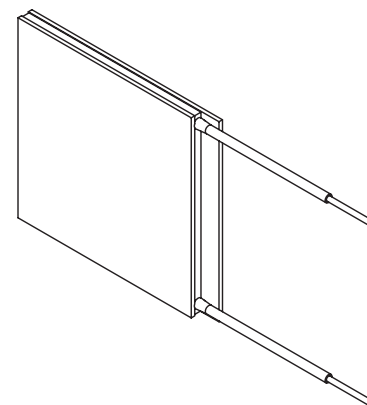
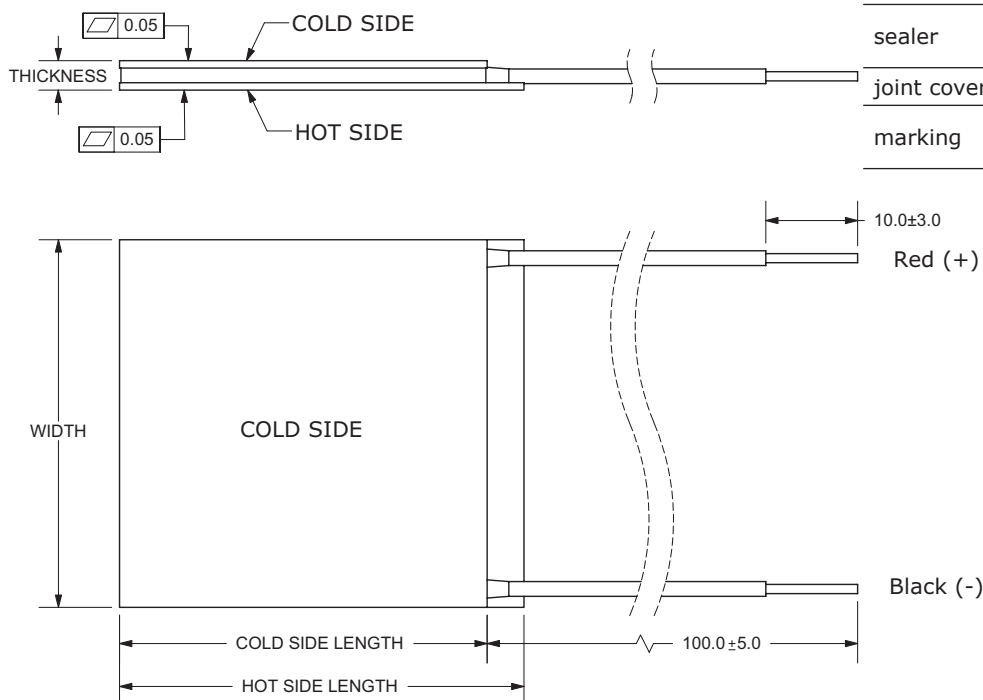
Notes:

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)

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

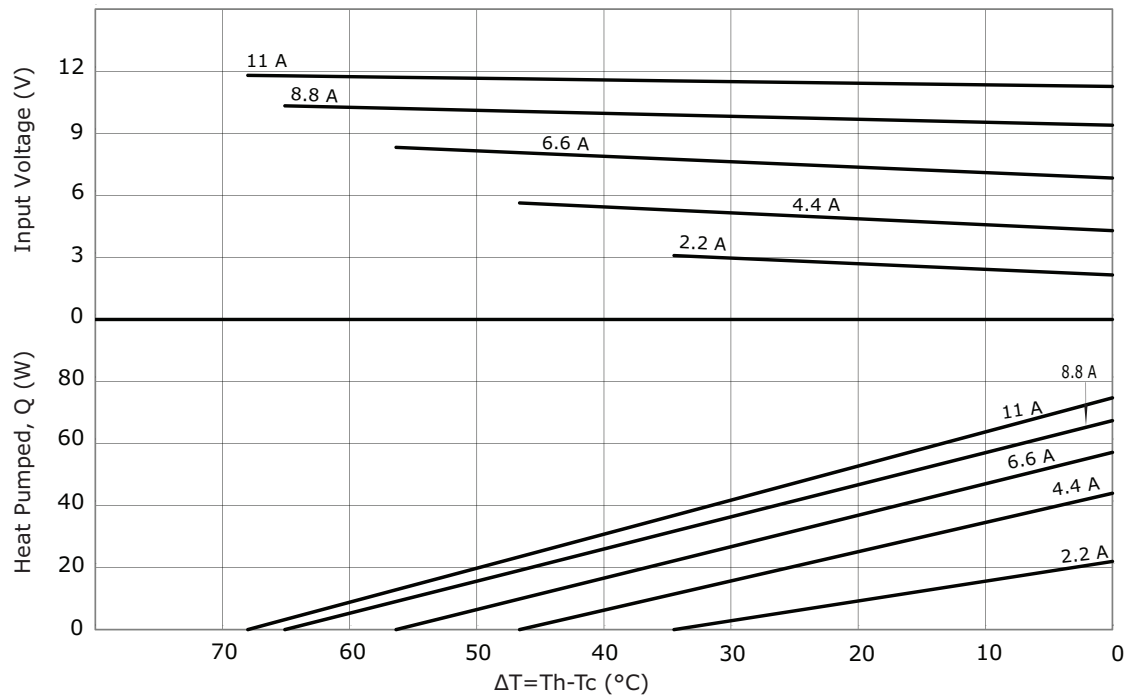
units: mm

	MATERIAL	PLATING
ceramic plate	96% AL ₂ O ₃	
wire leads (CP1140203)	22 AWG	tin
wire leads (CP115559405)	18 AWG	tin
wire leads (all other models)	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	

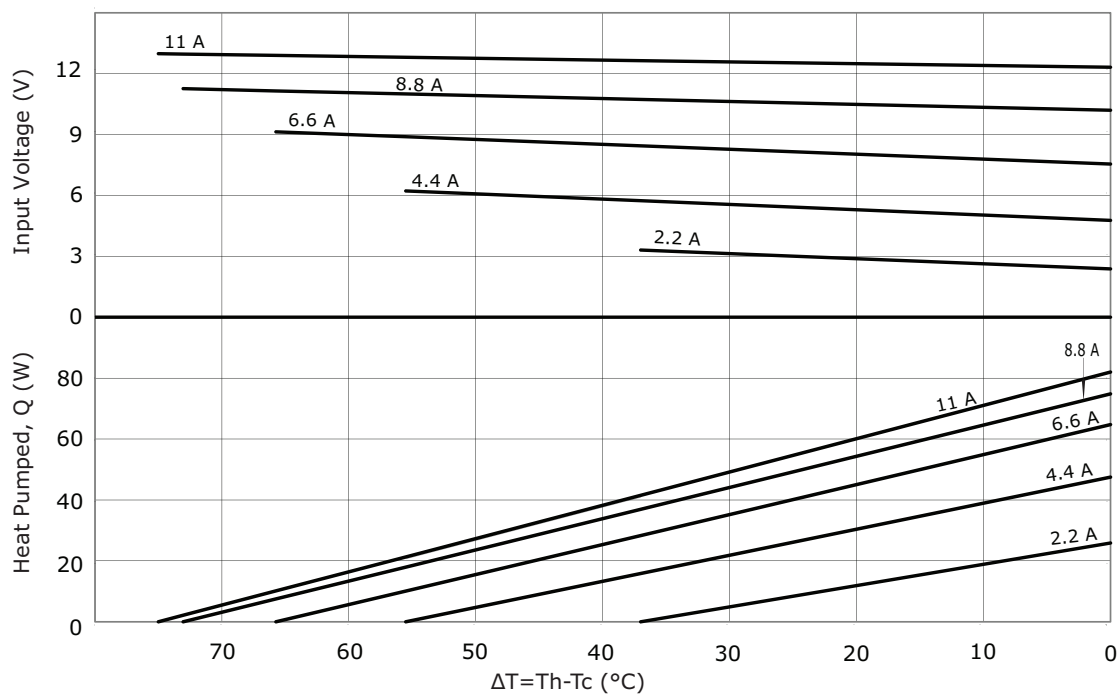


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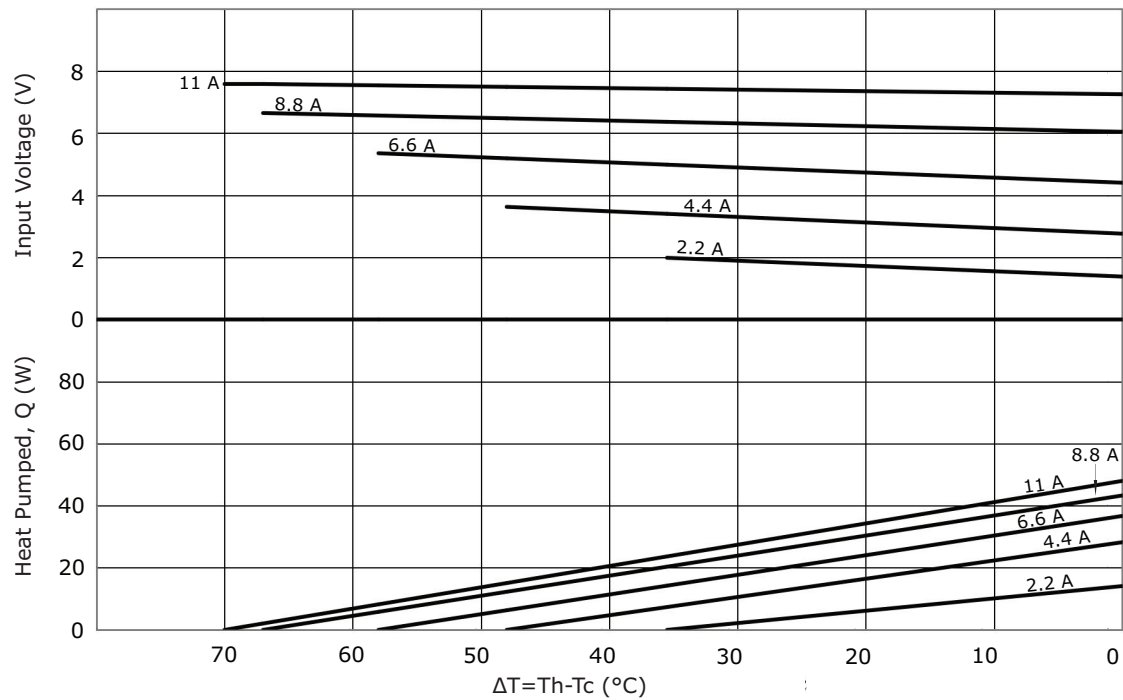
CP1130325 PERFORMANCE (Th=27°C)



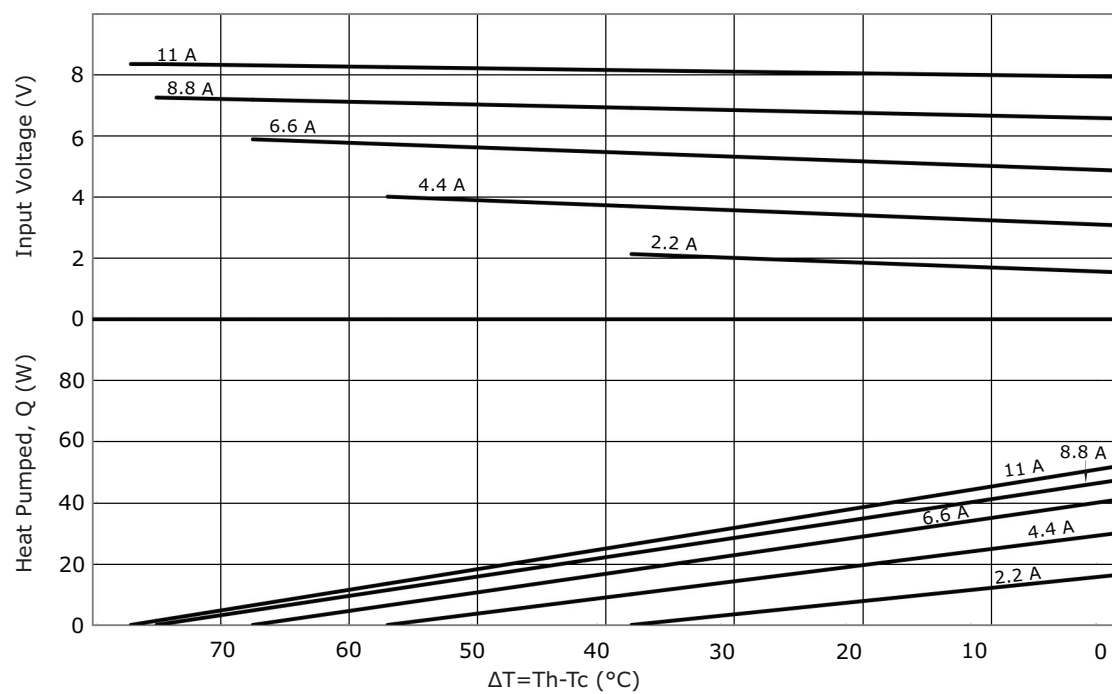
CP1130325 PERFORMANCE (Th=50°C)

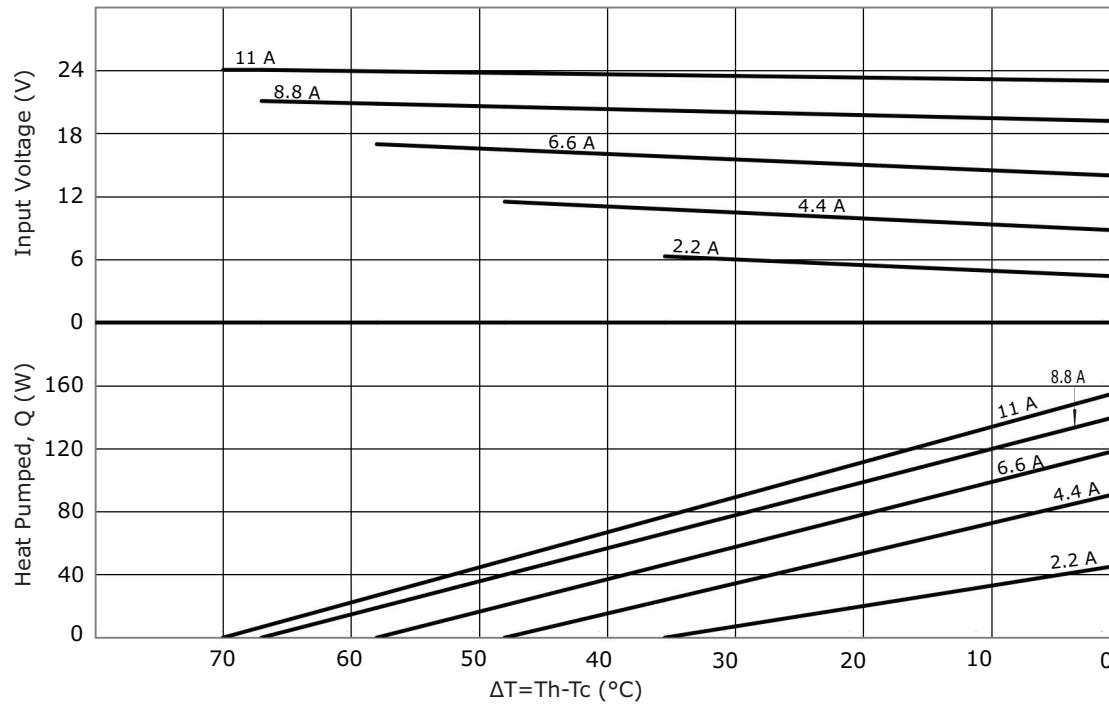
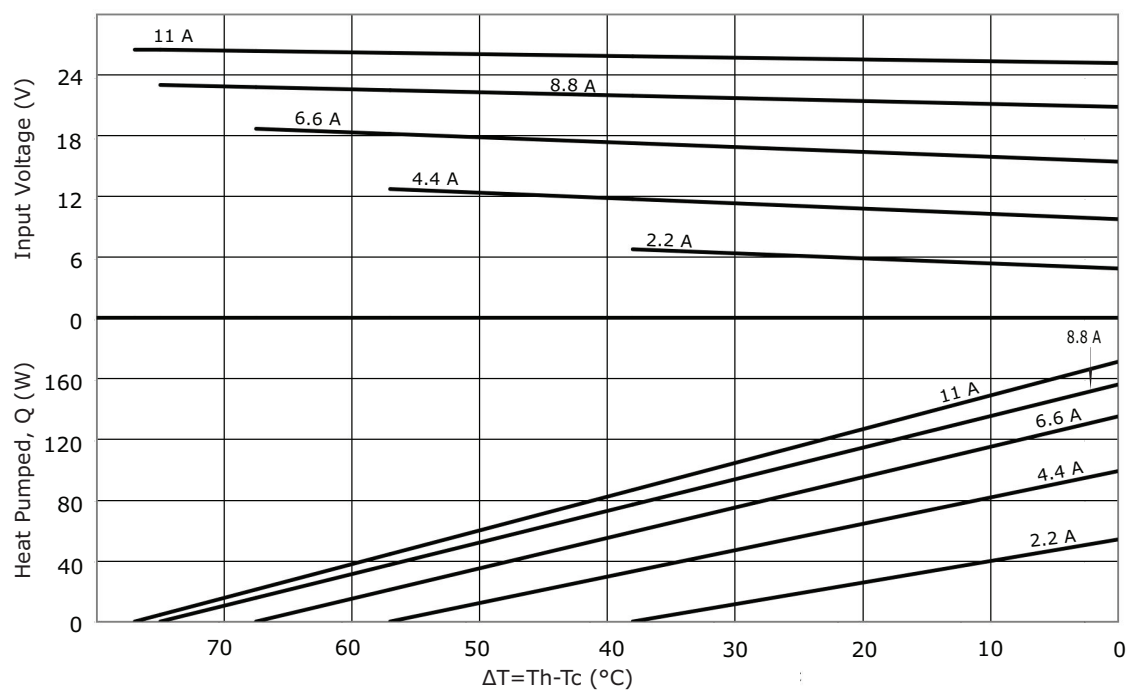


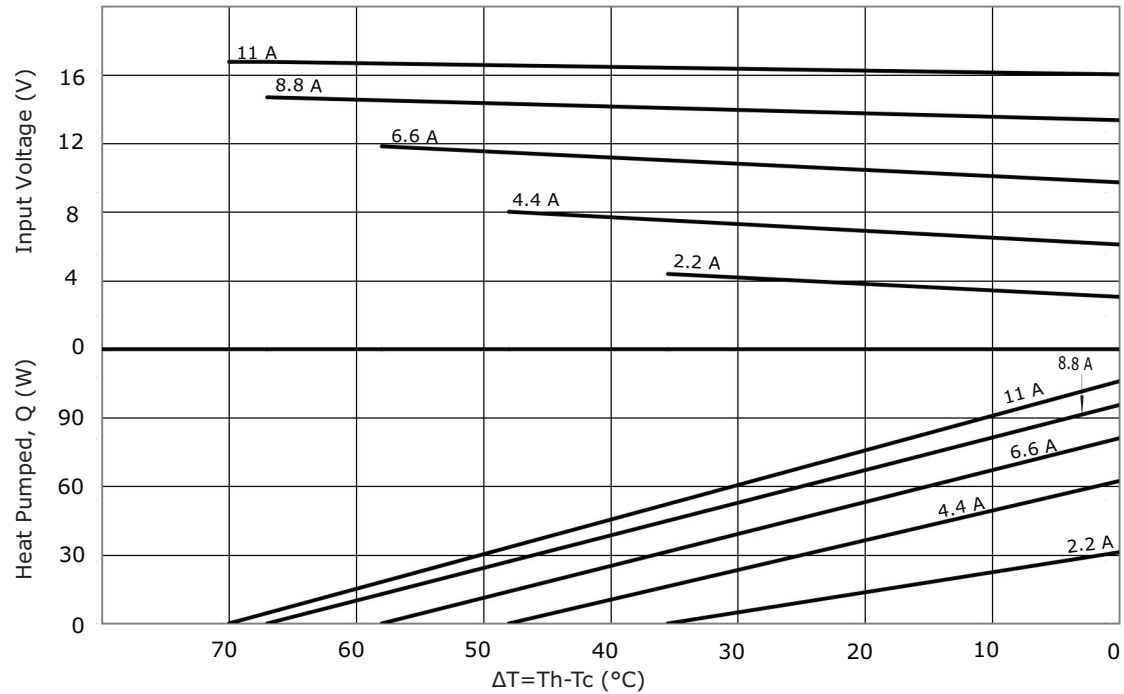
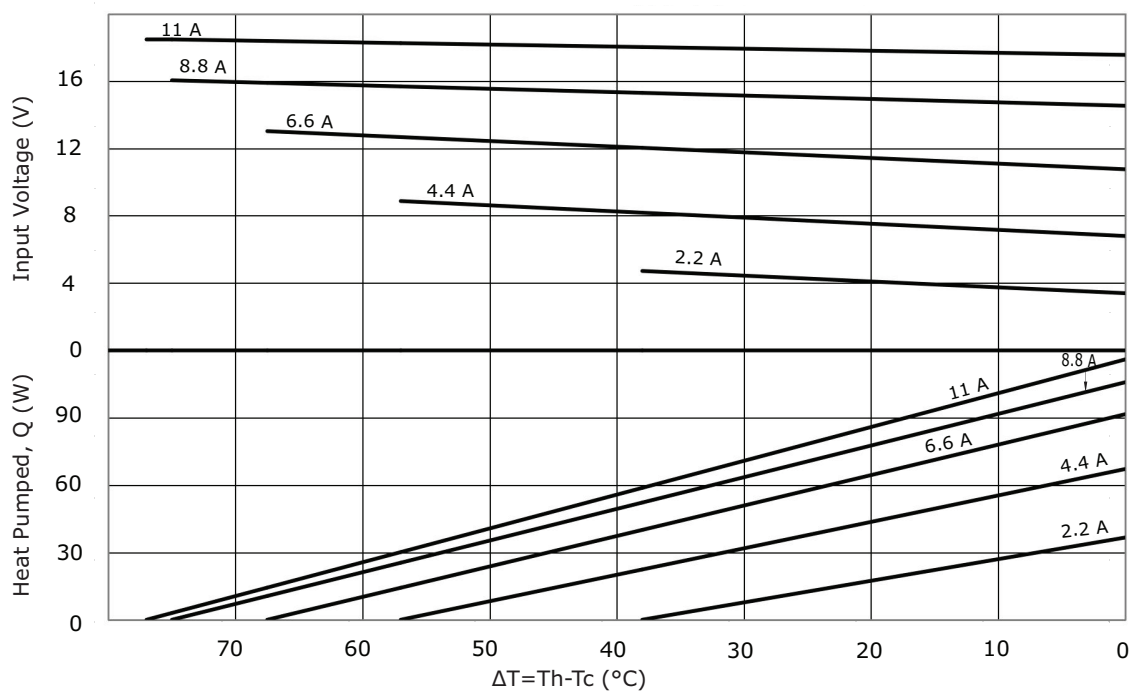
CP1140203 PERFORMANCE (Th=27°C)

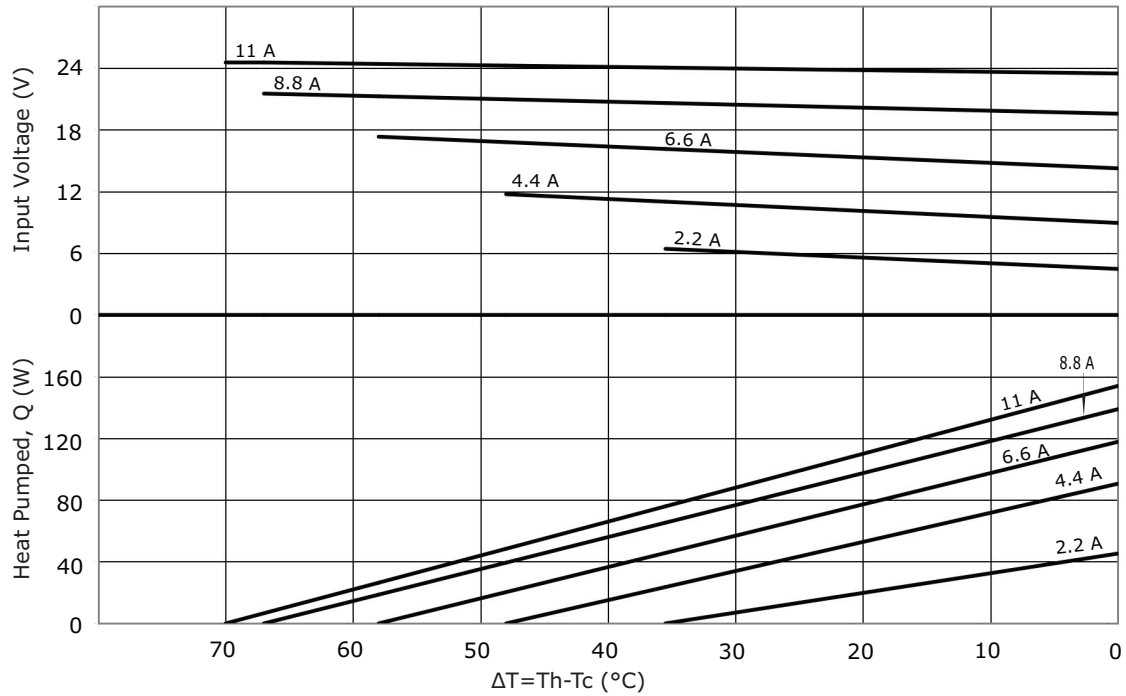
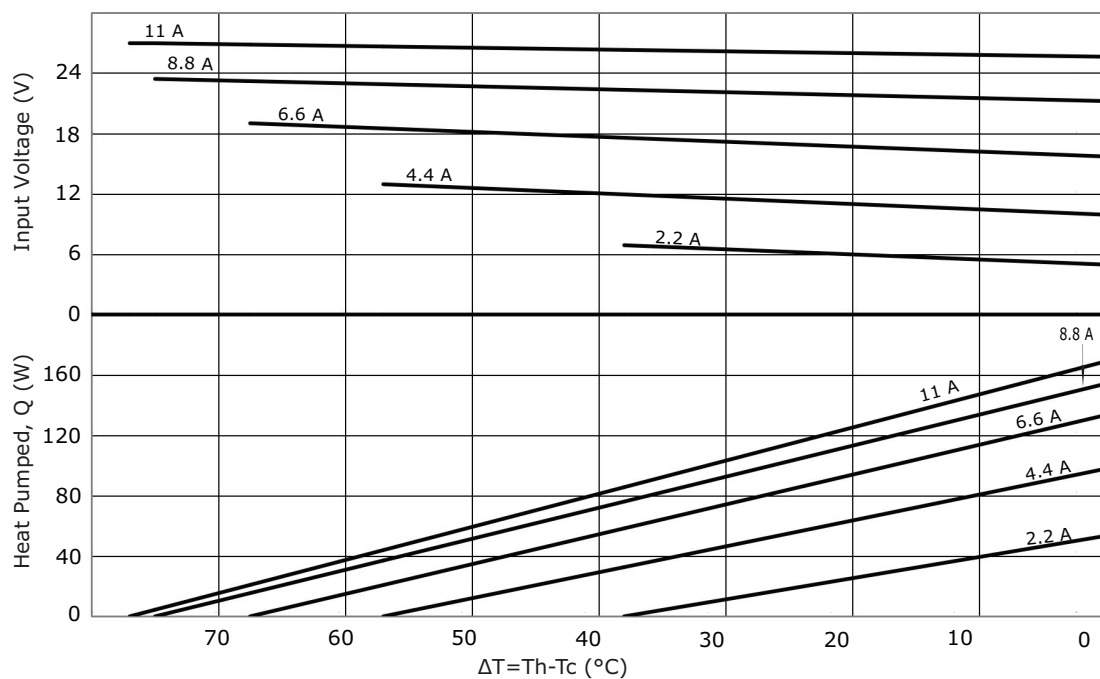


CP1140203 PERFORMANCE (Th=50°C)



CP11404432 PERFORMANCE (Th=27°C)**CP11404432 PERFORMANCE (Th=50°C)**

CP115035335 PERFORMANCE (Th=27°C)**CP115035335 PERFORMANCE (Th=50°C)**

CP115559405 PERFORMANCE (Th=27°C)**CP115559405 PERFORMANCE (Th=50°C)**

REVISION HISTORY

rev.	description	date
1.0	initial release	11/05/2019
1.01	added model CP115035335	11/10/2020

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

CUI DEVICES

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

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CUI Devices 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.