CUI INC®

SERIES: CP60 | DESCRIPTION: PELTIER MODULE

FEATURES

- solid state device
- precise temperature control
- quiet operation

RoHS

MODEL

MODEL	input voltage[1] max (Vdc)	input current[2] max (A)	output Qmax[3] T_h=27°C (W)	output Qmax[3] T_h=50°C (W)	output ΔTmax[4] T_h=27°C (°C)	output ΔTmax[4] T_h=50°C (°C)
CP60133	3.8	6.0	12.2	13.6	66	72
CP60233	8.6	6.0	27.9	31.2	66	72
CP60333	15.4	6.0	50.5	56.5	66	72
CP60140	2.1	6.0	7.1	7.9	68	75
CP60240	3.8	6.0	13.0	14.5	68	75
CP60301540	4.2	6.0	14.5	16.1	68	75
CP60340	8.6	6.0	29.0	32.4	68	75
CP60440	15.4	6.0	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. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and ΔT=0°C
4. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)

PART NUMBER KEY

CP60 XXXX XXX

Base Number

Length x Width:
1 = 15 x 15 mm
2 = 20 x 20 mm
3 = 30 x 30 mm
4[1] = 40 x 40 mm
3015[1] = 30 x 15 mm

Thickness:
33 = 3.3 mm
40 = 4.0 mm

Notes:
1. Only available in 4.0 mm thickness

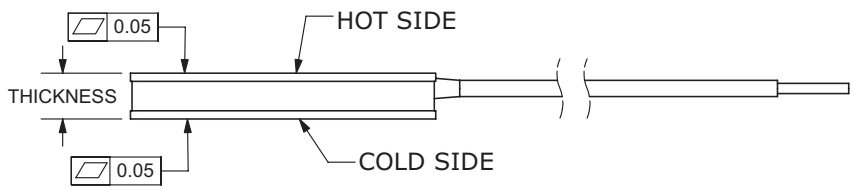
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance[1]	CP60133	0.45	0.50	0.55	Ω
	CP60233	1.08	1.20	1.32	Ω
	CP60333	1.98	2.20	2.42	Ω
	CP60140	0.261	0.29	0.319	Ω
	CP60240	0.477	0.53	0.583	Ω
	CP60301540	0.513	0.57	0.627	Ω
	CP60340	1.089	1.21	1.331	Ω
	CP60440	1.953	2.17	2.387	Ω
solder melting temperature	connection between thermoelectric pairs	138			°C
assembly compression	all other models			0.98	MPa
	CP60301540			1	MPa
hot side plate				80	°C
RoHS	2011/65/EU				

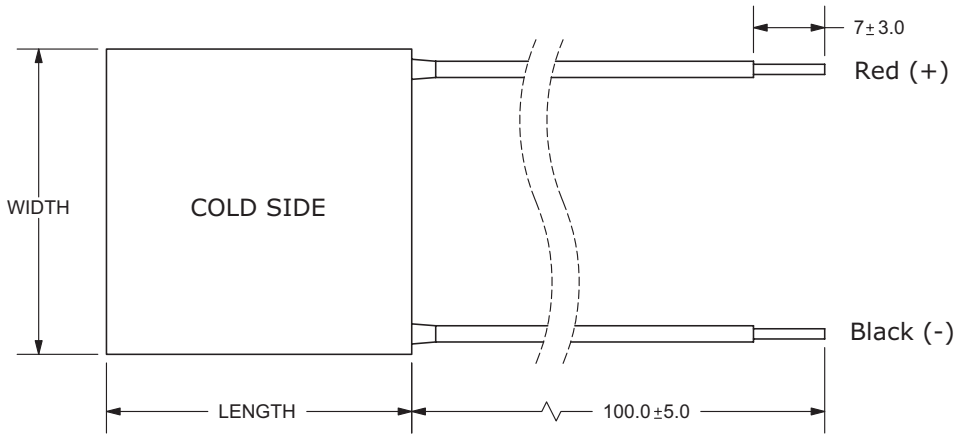
Note: 1. Measured by AC 4-terminal method at 25°C

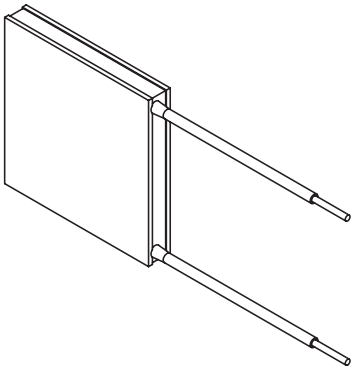
MECHANICAL DRAWING

units: mm



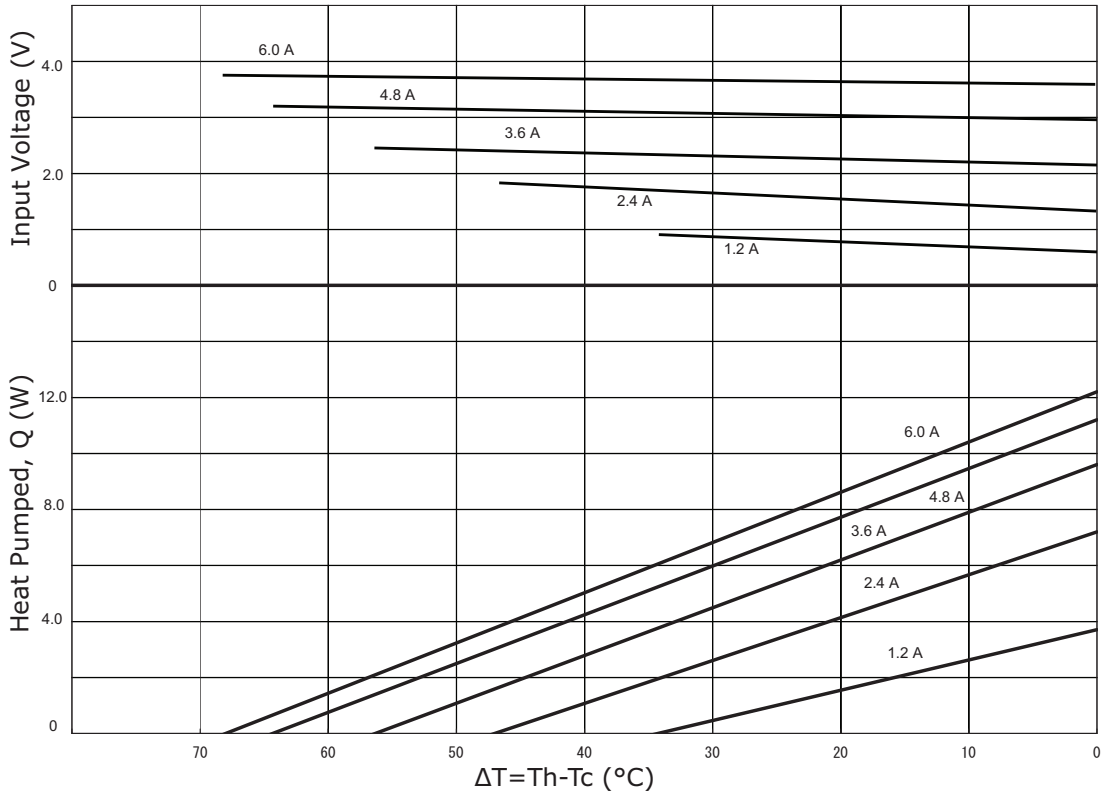
	MATERIAL	PLATING
ceramic plate	96% AL_2O_3	
wire leads	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	



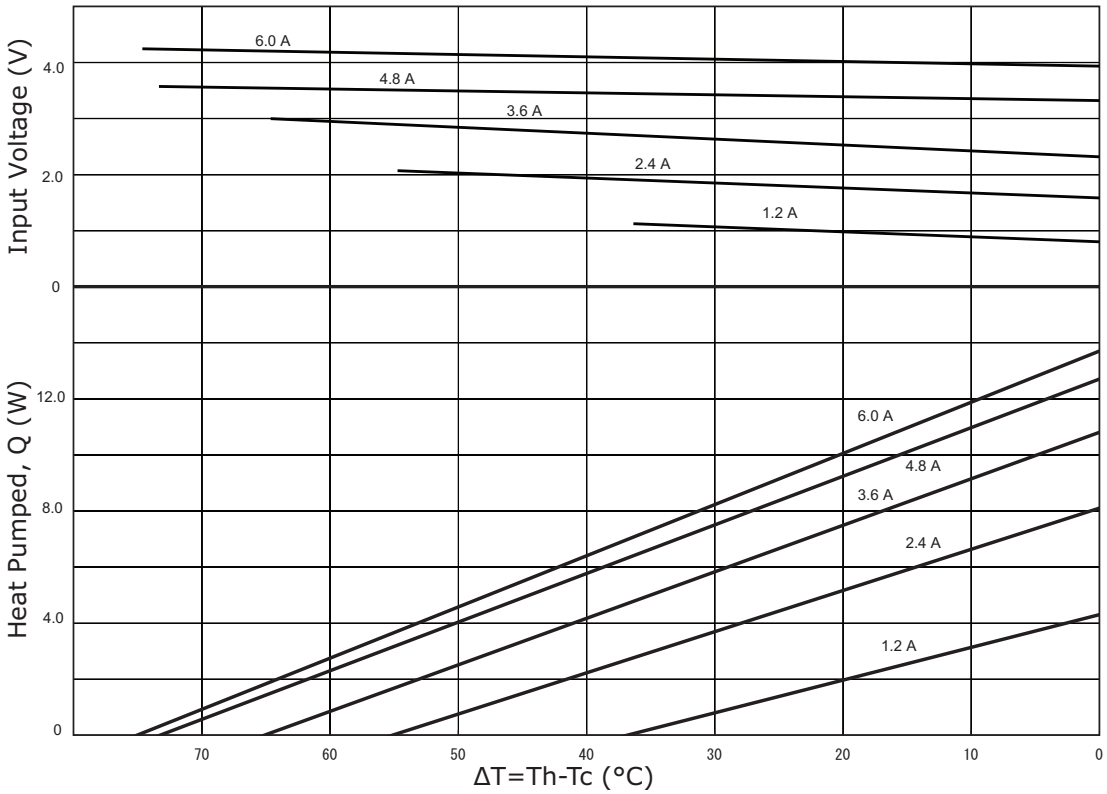


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP60133	15 ±0.3	15 ±0.3	3.3 ±0.1
CP60233	20 ±0.3	20 ±0.3	3.3 ±0.1
CP60333	30 ±0.3	30 ±0.3	3.3 ±0.1
CP60140	15 ±0.3	15 ±0.3	4.0 ±0.1
CP60240	20 ±0.3	20 ±0.3	4.0 ±0.1
CP60301540	30 ±0.3	15 ±0.3	4.05 ±0.1
CP60340	30 ±0.3	30 ±0.3	4.0 ±0.1
CP60440	40 ±0.3	40 ±0.3	4.0 ±0.1

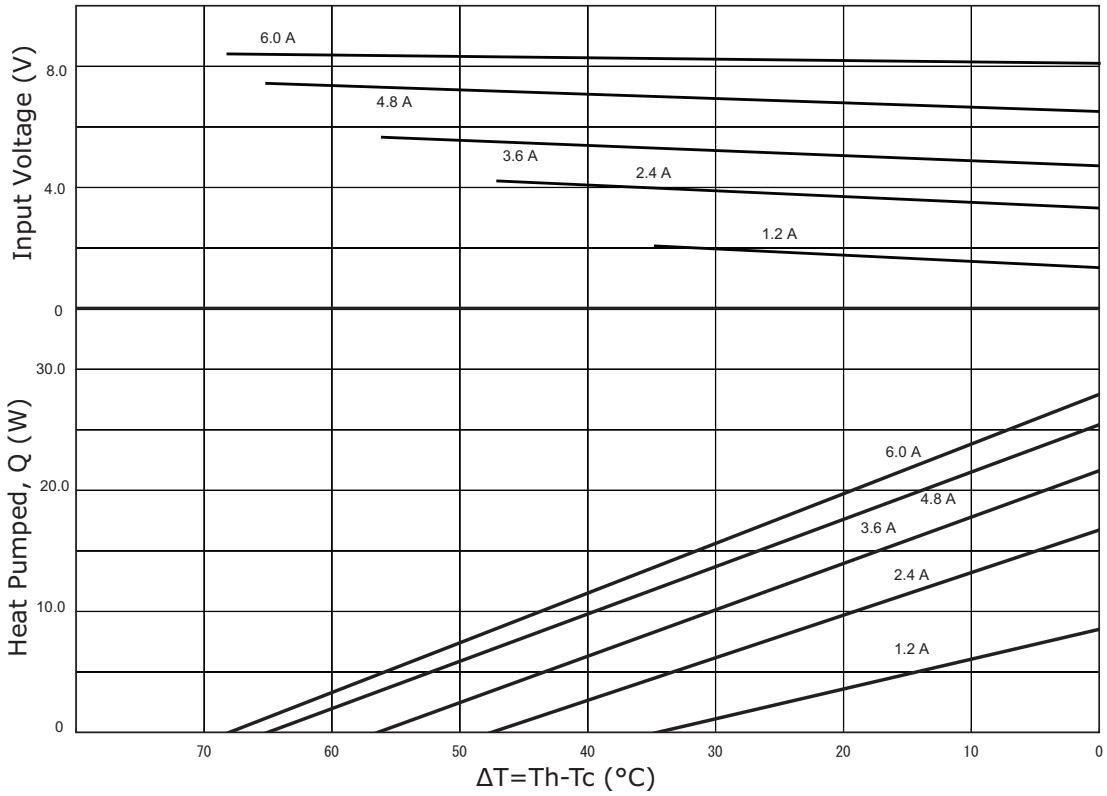
CP60133 PERFORMANCE (Th=27°C)



CP60133 PERFORMANCE (Th=50°C)



CP60233 PERFORMANCE (Th=27°C)



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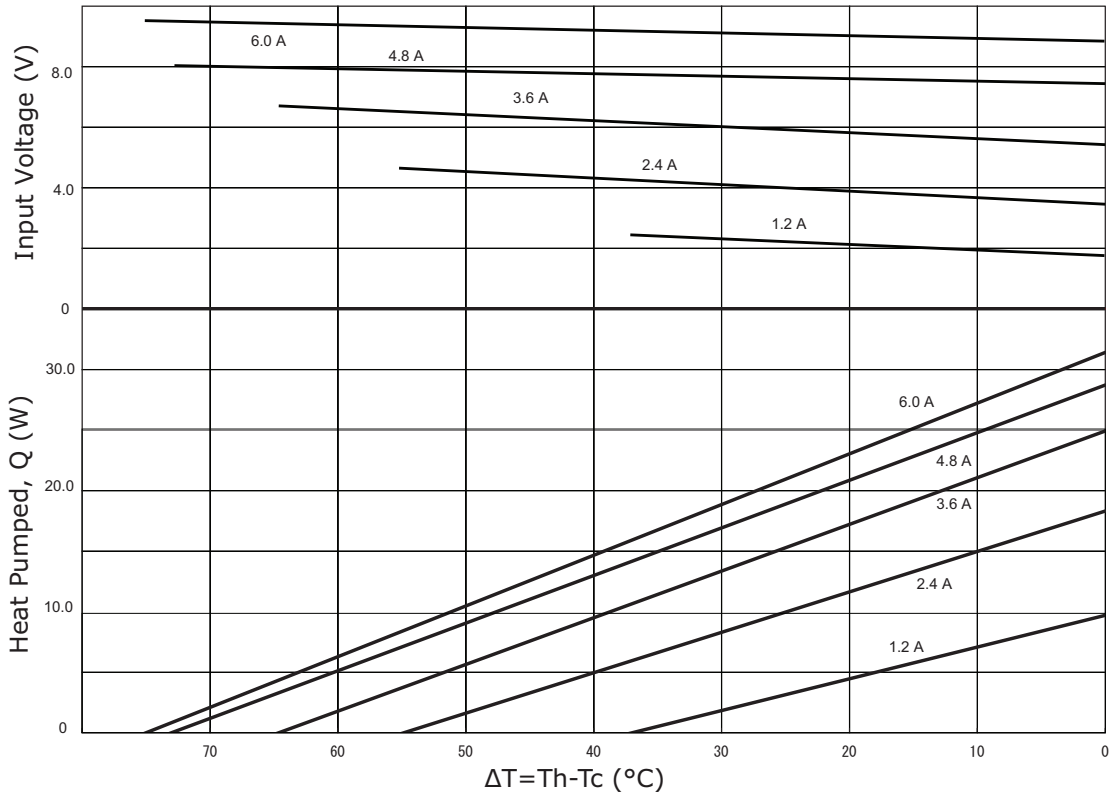
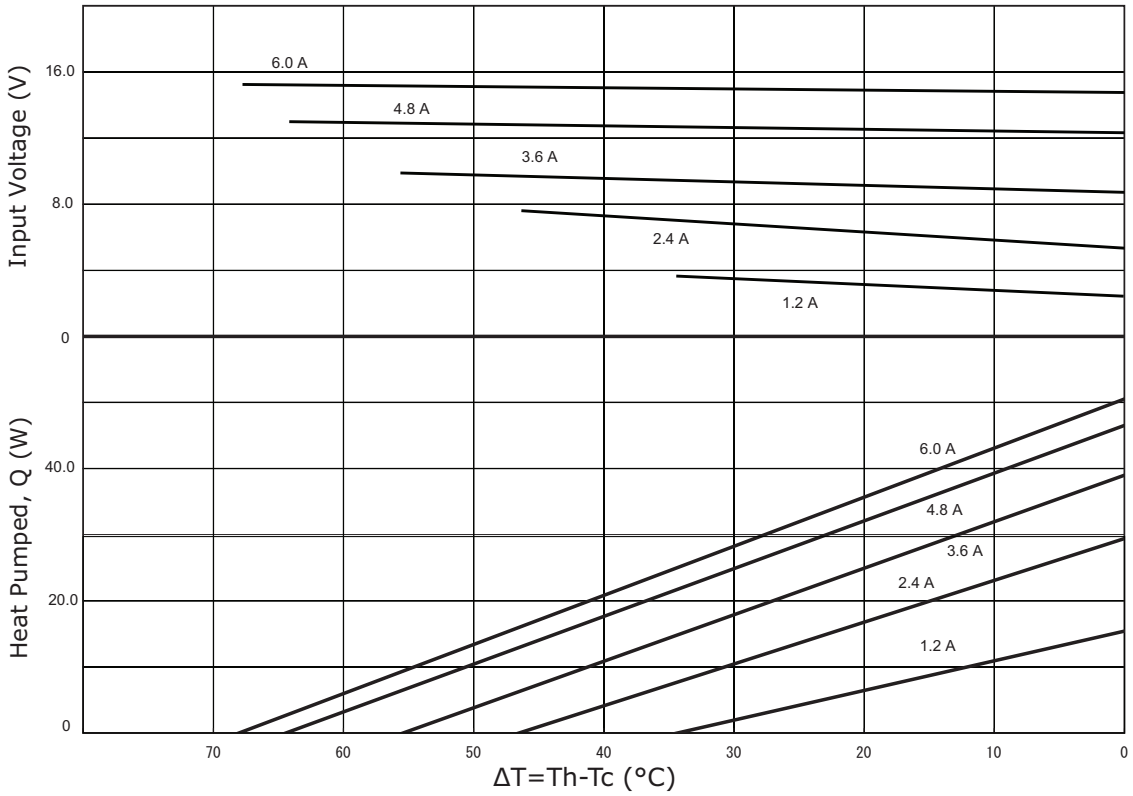


CP60333 PERFORMANCE (Th=27°C)



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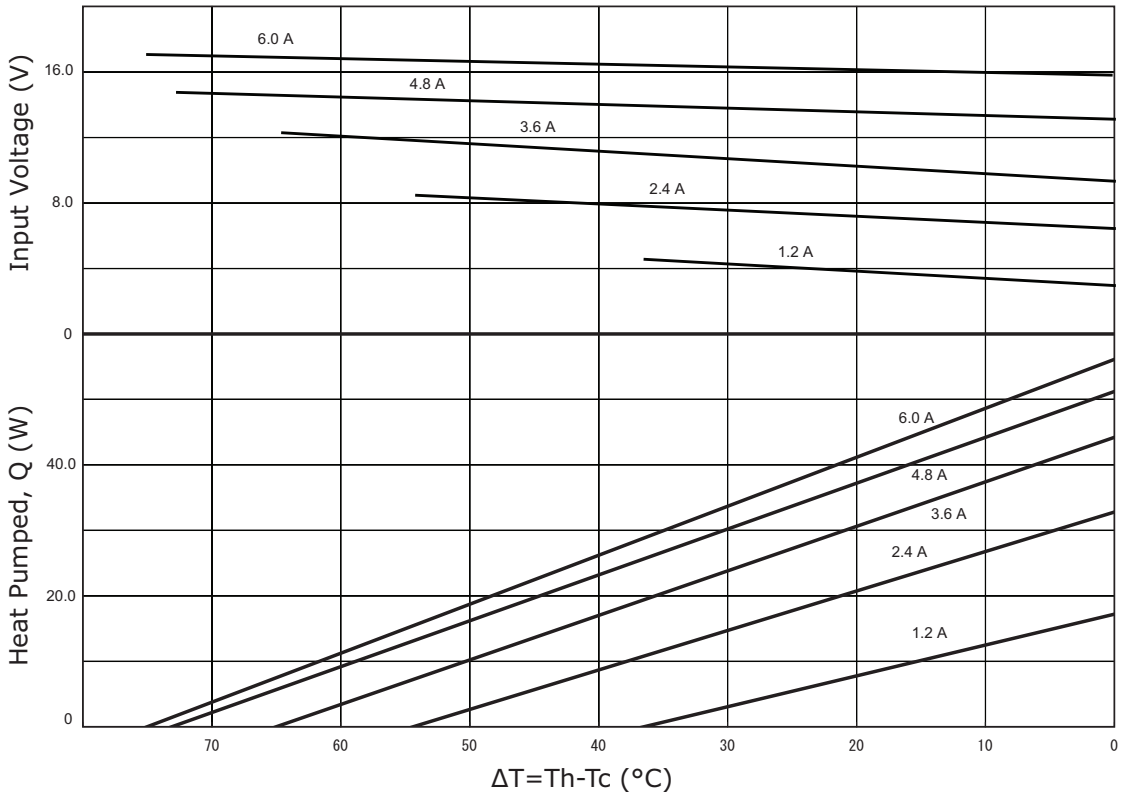
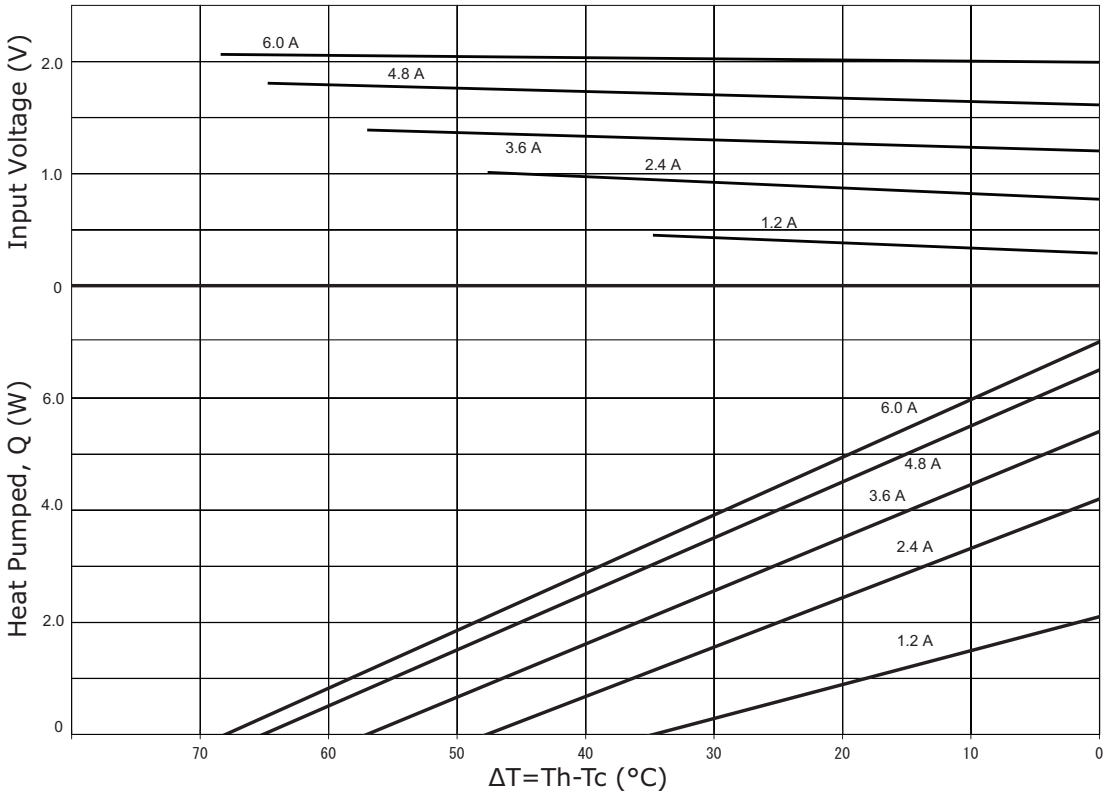


CP60140 PERFORMANCE (Th=27°C)



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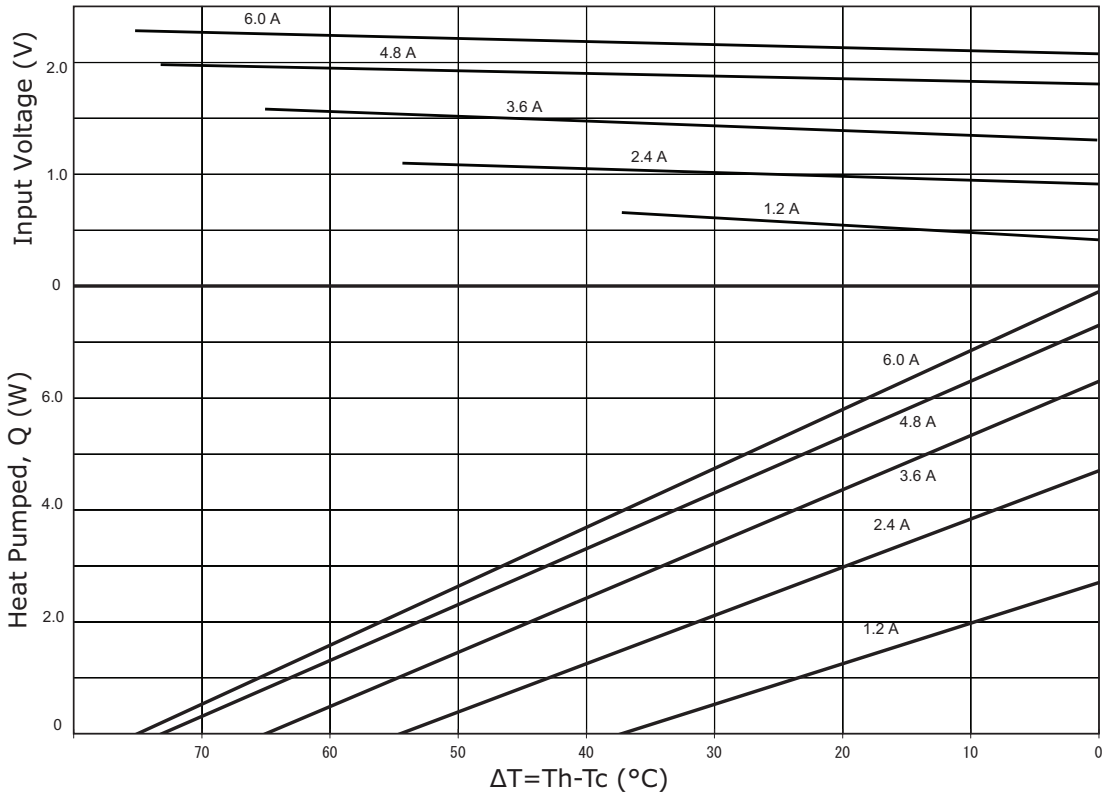
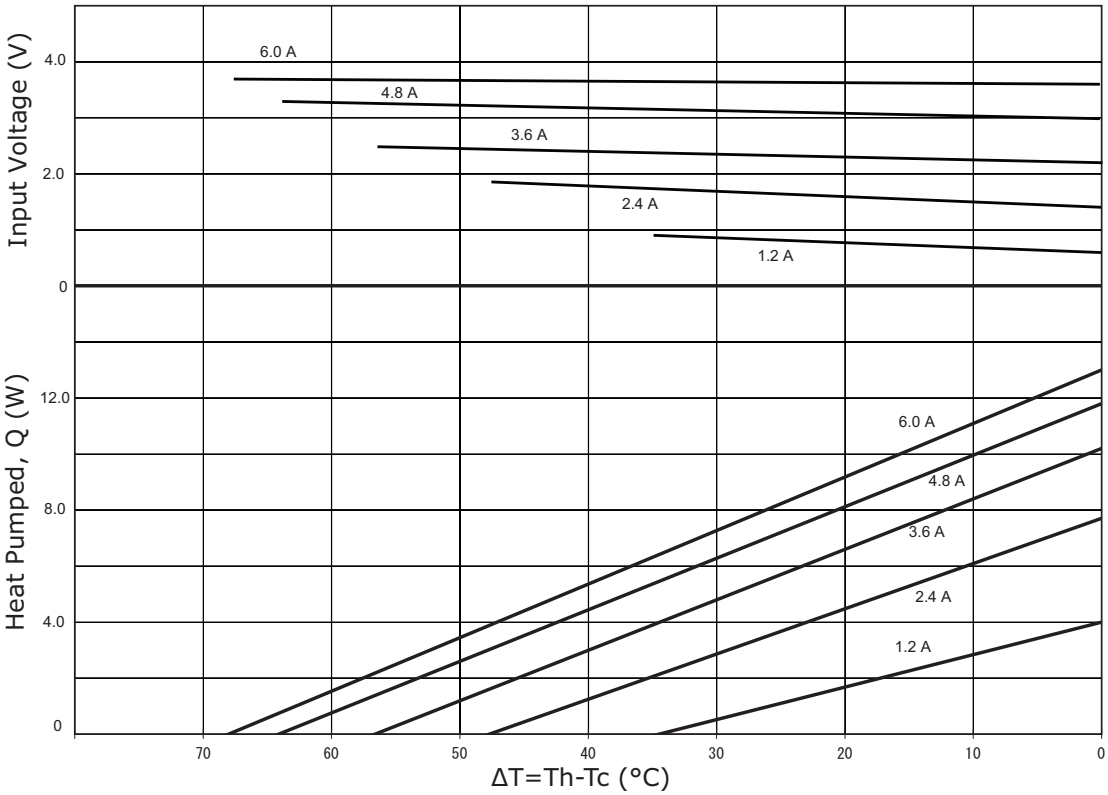


CP60240 PERFORMANCE (Th=27°C)



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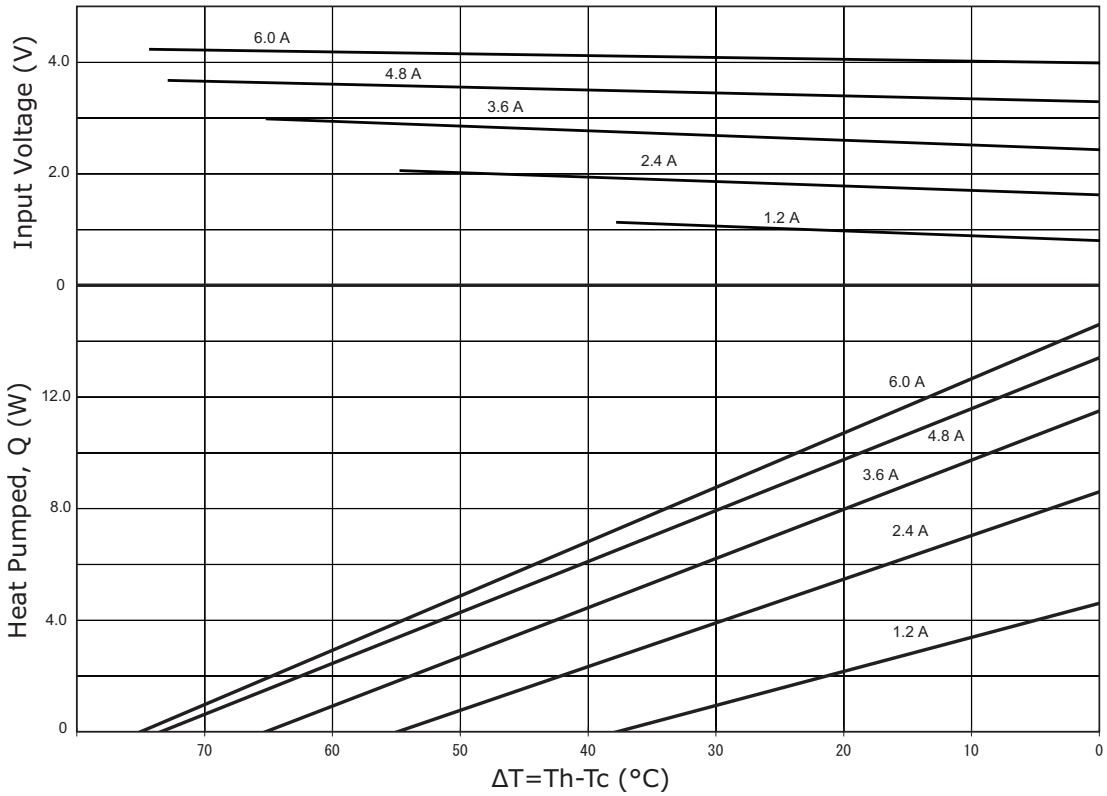
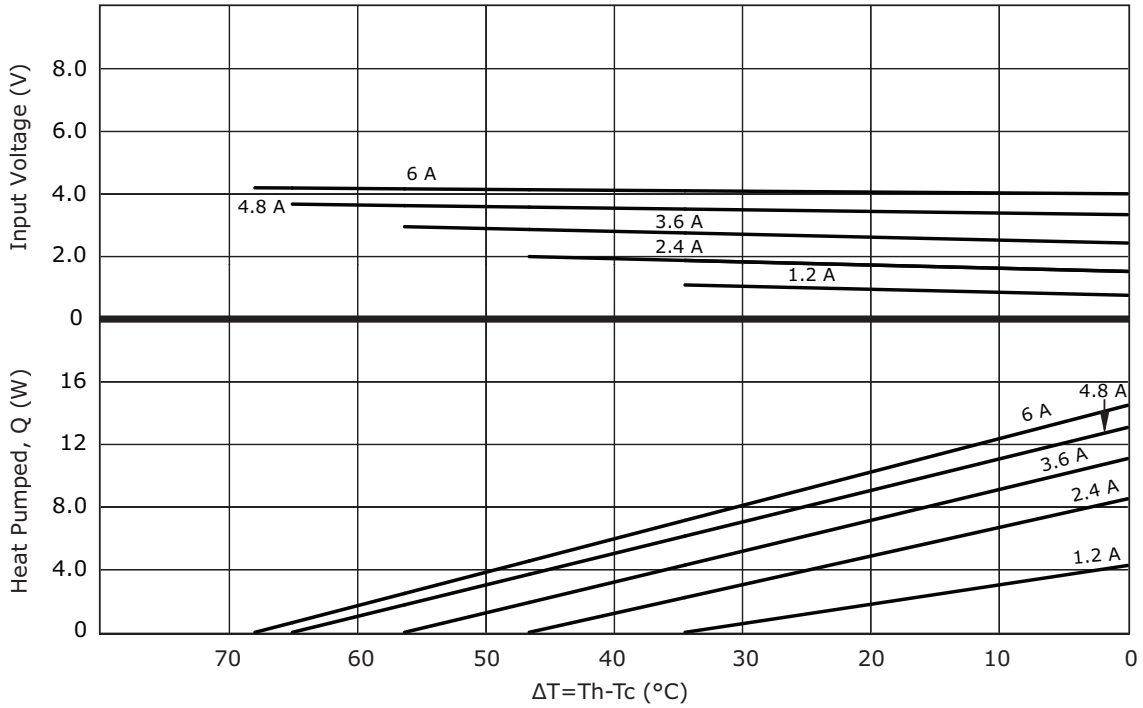
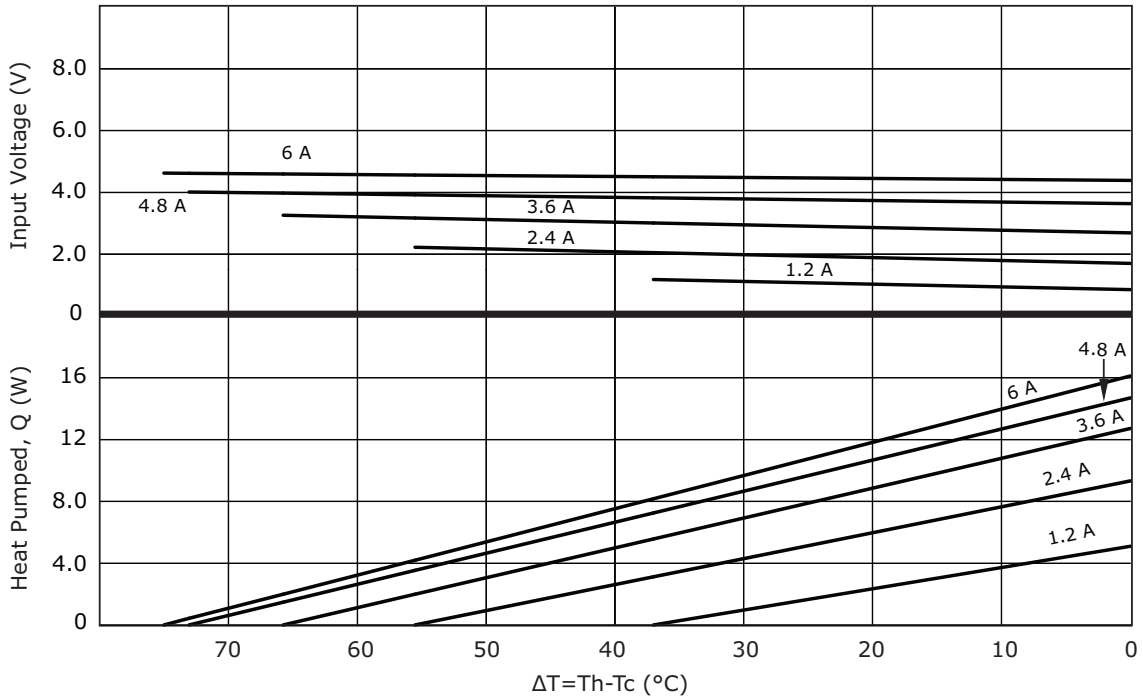


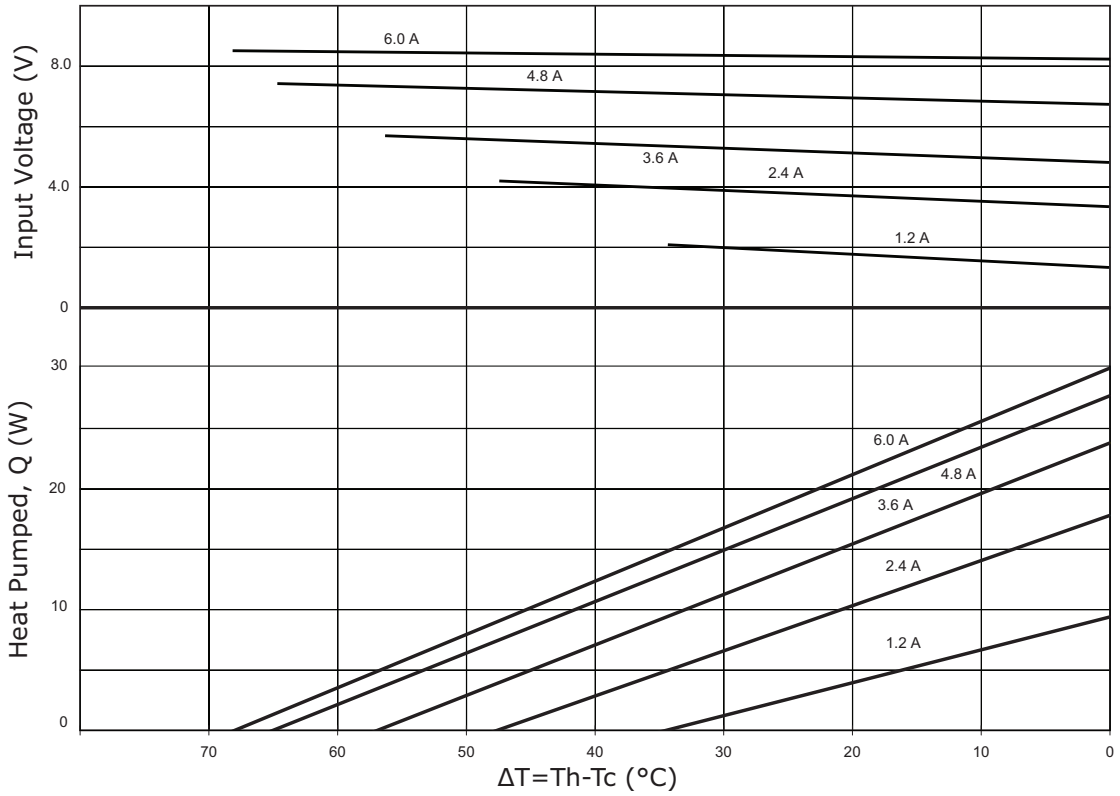
CP60301540 PERFORMANCE (Th=27°C)



CP60301540 PERFORMANCE (Th=50°C)



CP60340 PERFORMANCE (Th=27°C)



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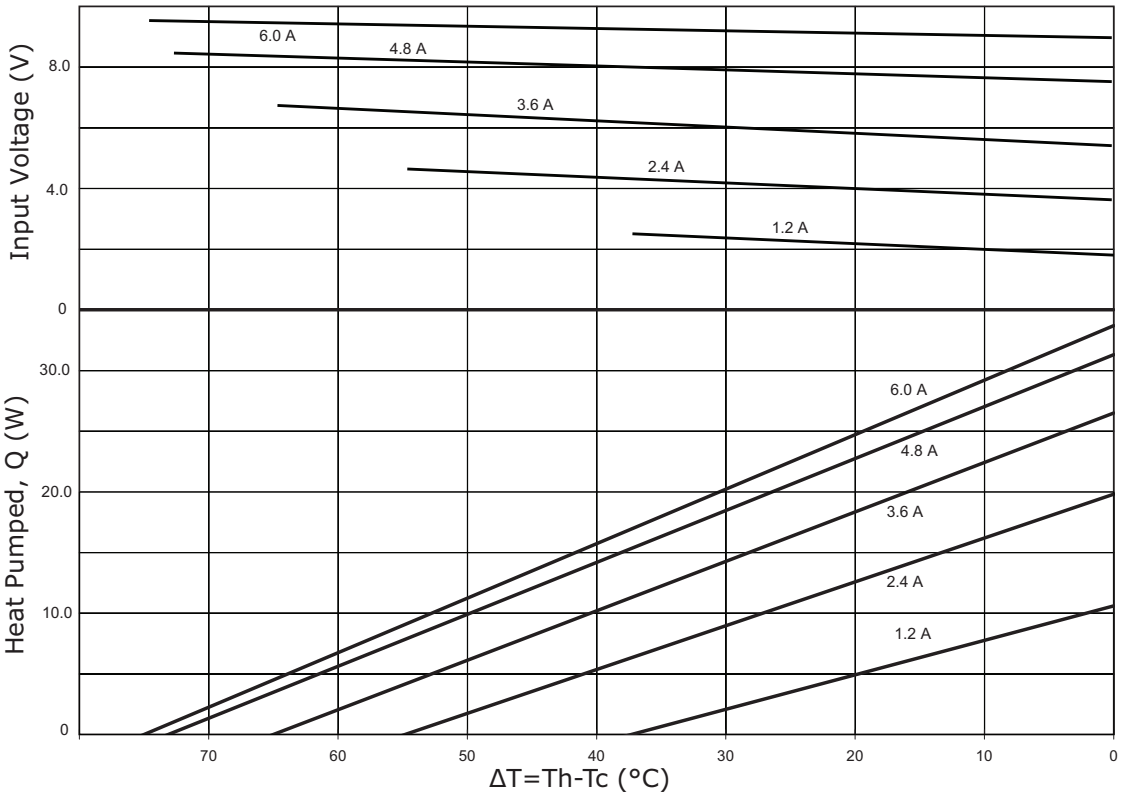

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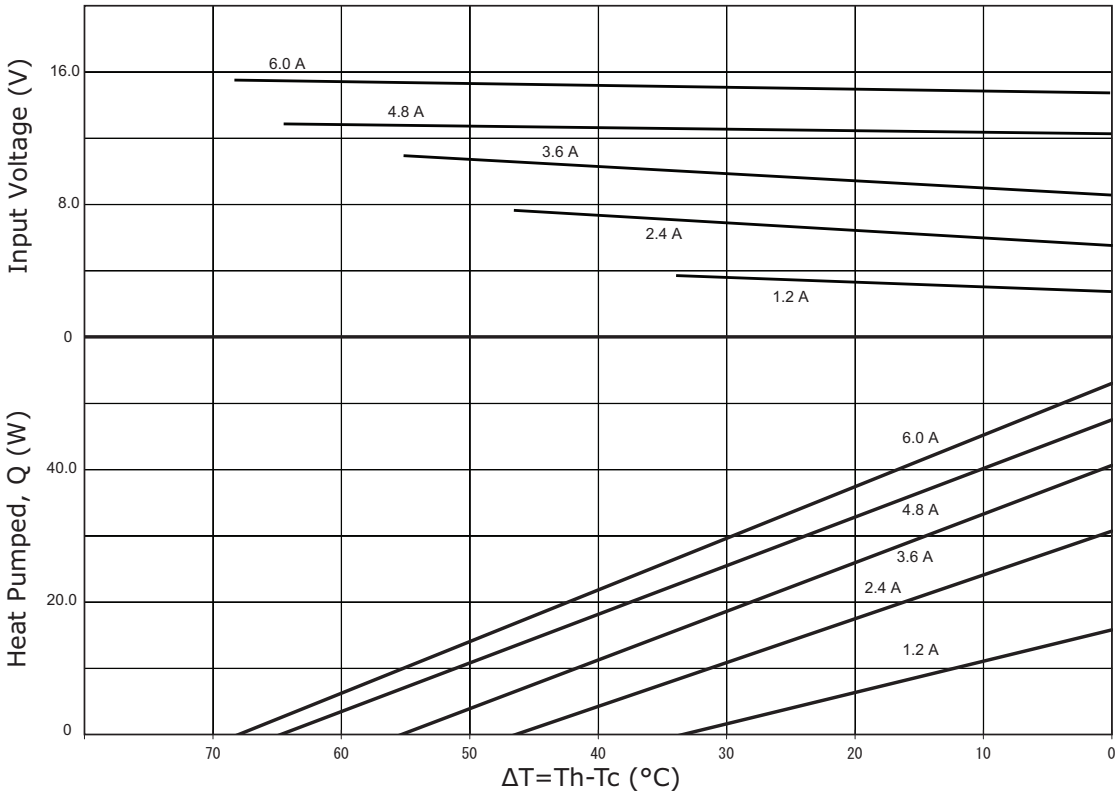

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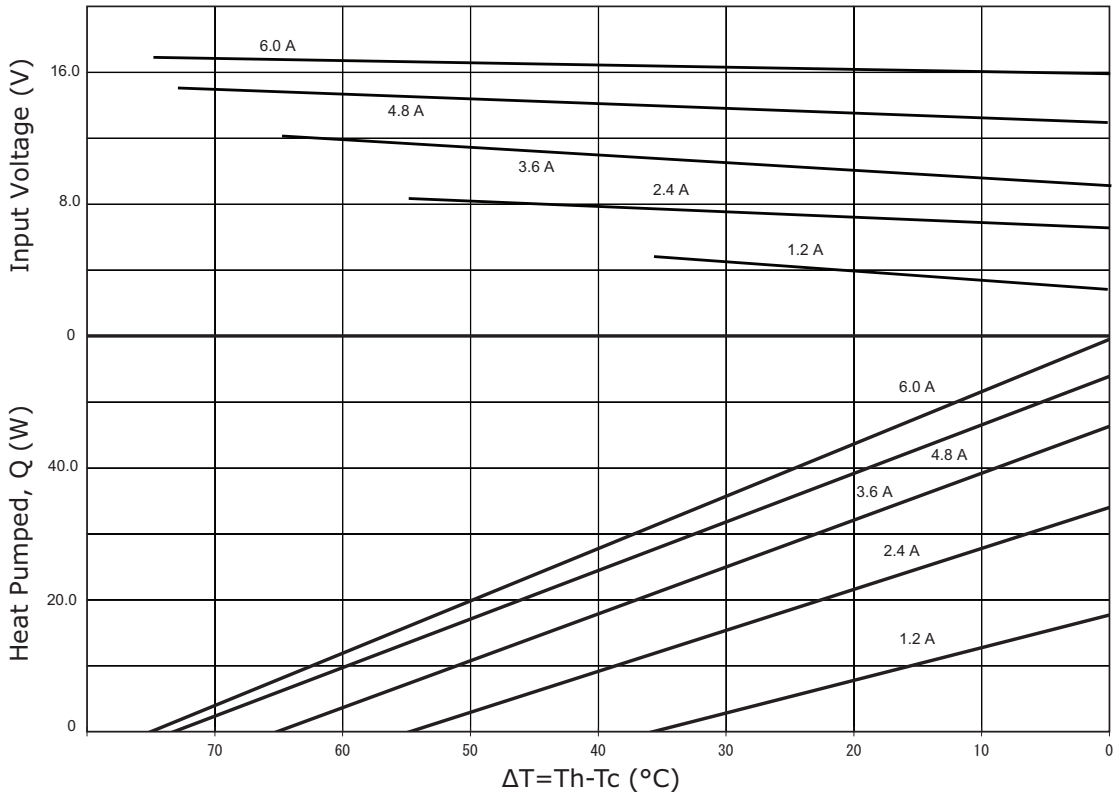

For more information, please visit the product page.

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

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

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

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