



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:

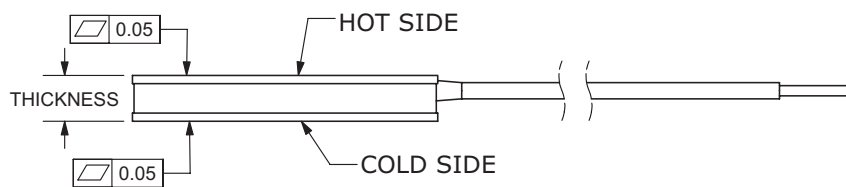
1. Maximum voltage at ΔT_{max} and T_h=27°C
2. Maximum current to achieve ΔT_{max}
3. Measured by AC 4-terminal method at 25°C
4. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and $\Delta T=0^\circ\text{C}$
5. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT_{max}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

SPECIFICATIONS

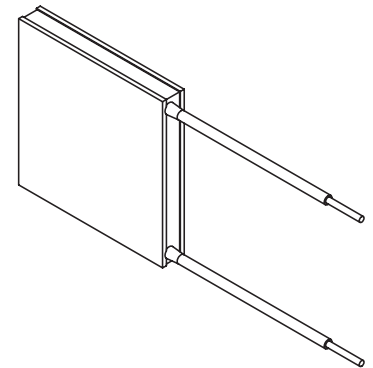
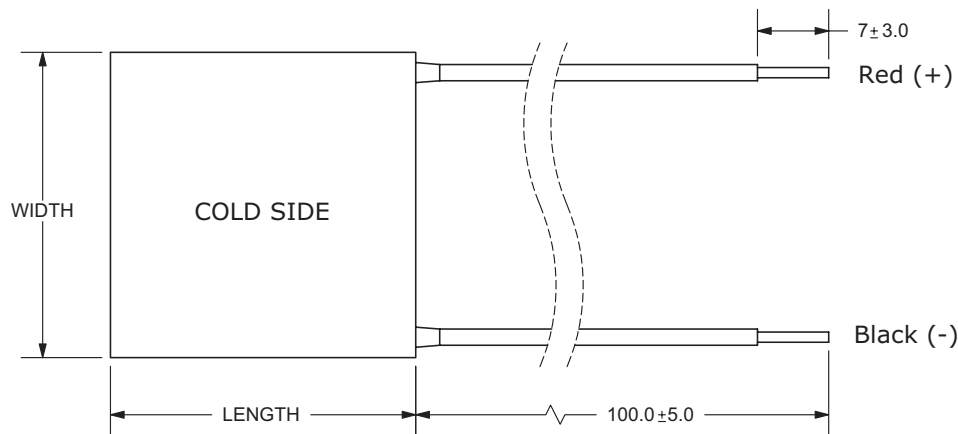
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
	CP60133, CP60233, CP60333, CP60301540	138			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	yes				

MECHANICAL DRAWING

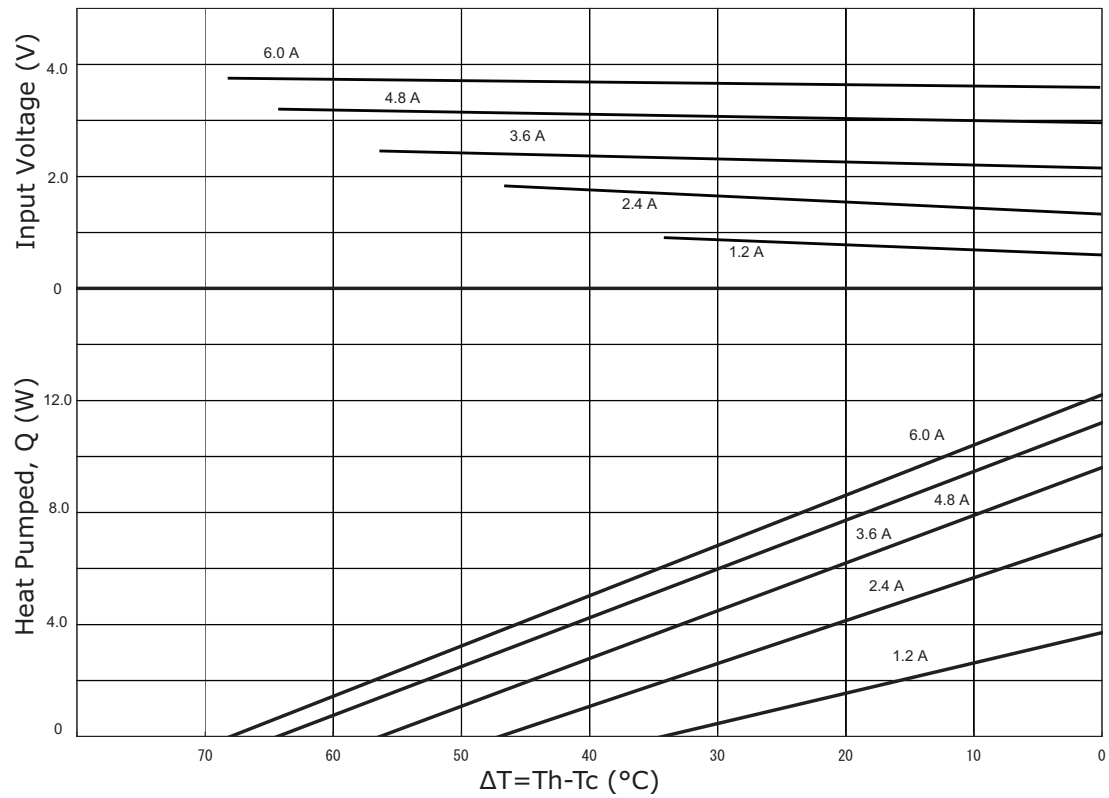
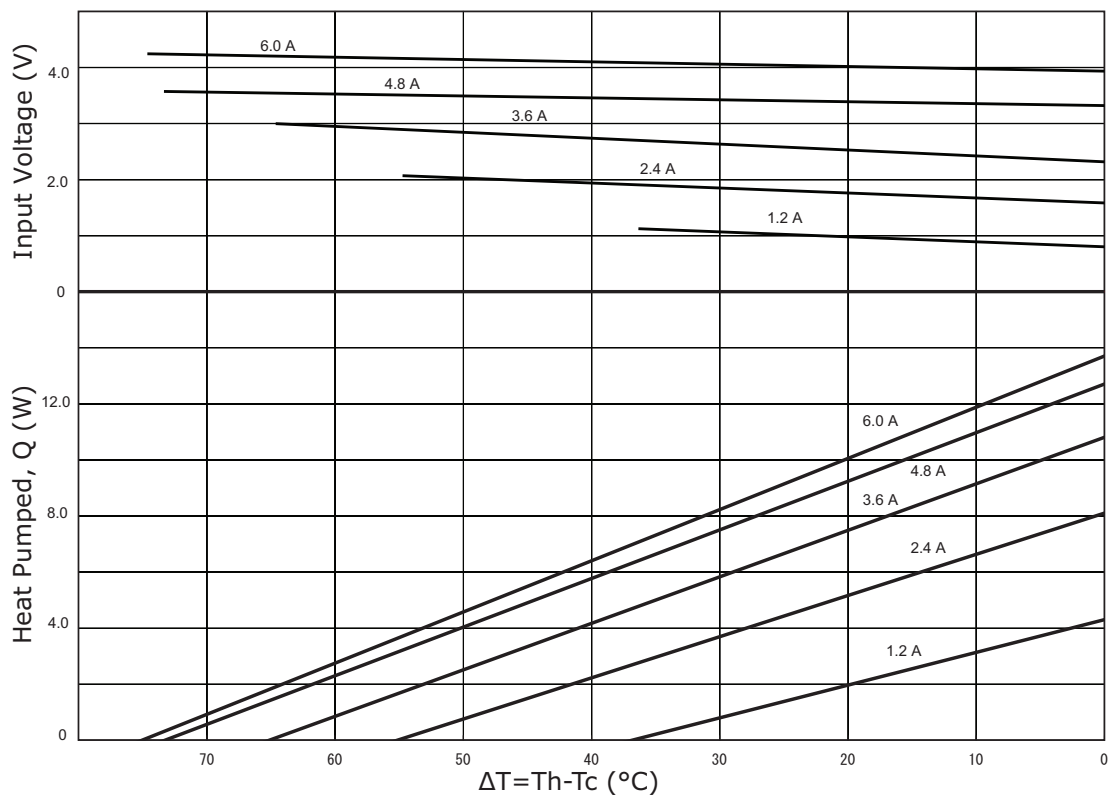
units: mm

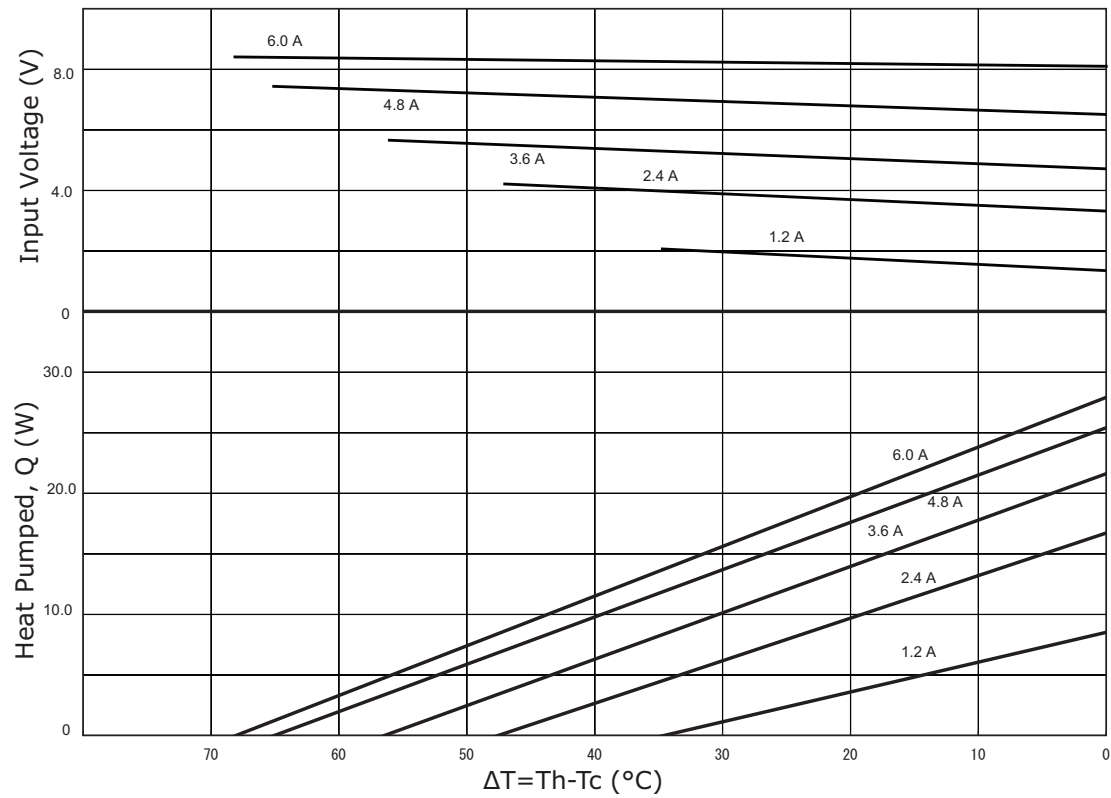
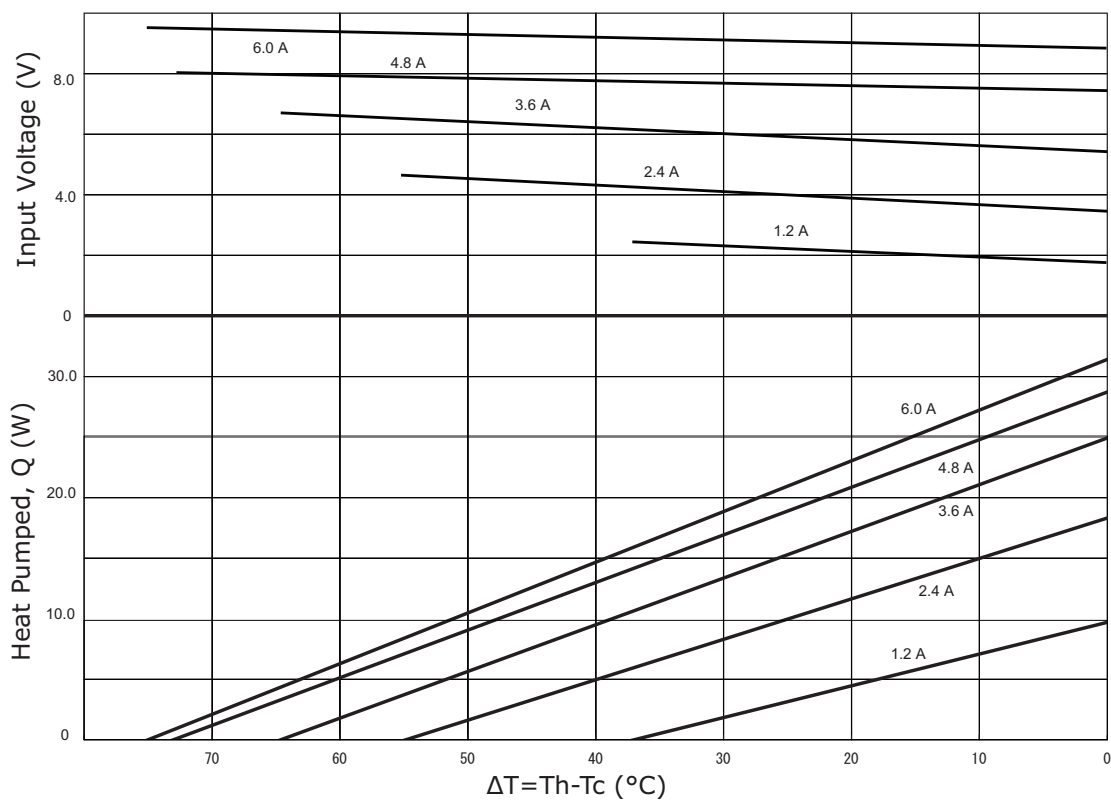


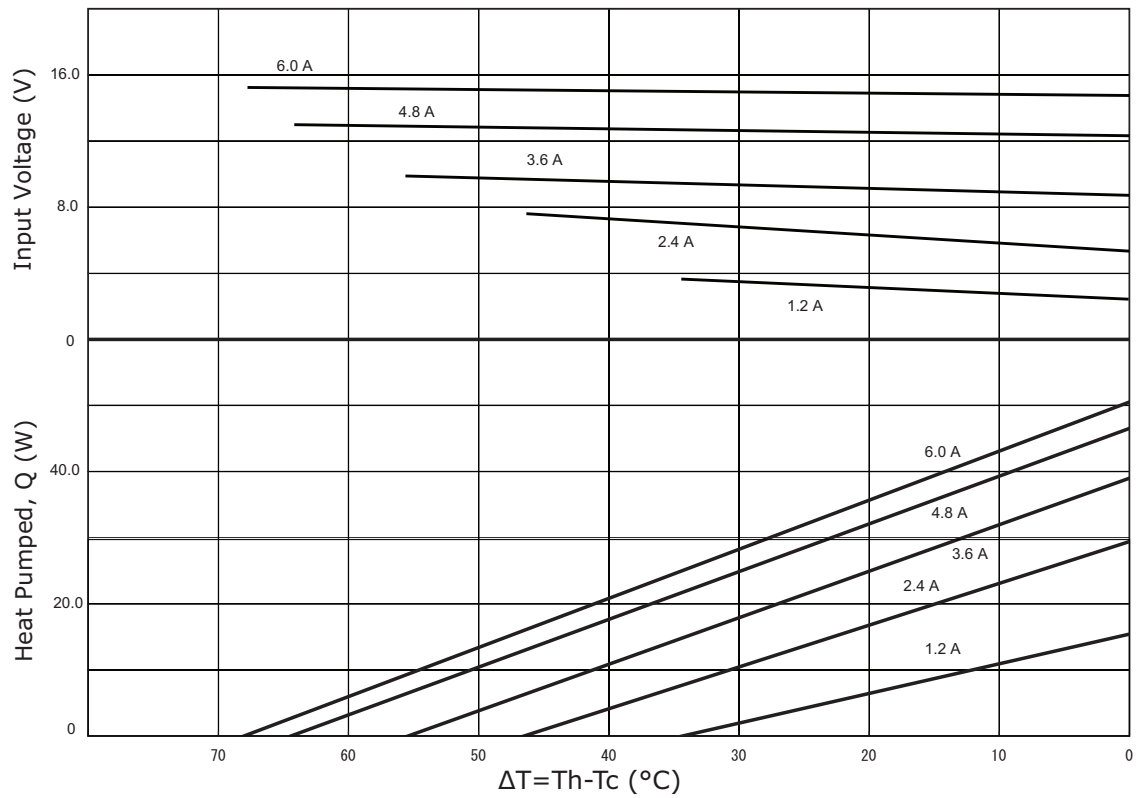
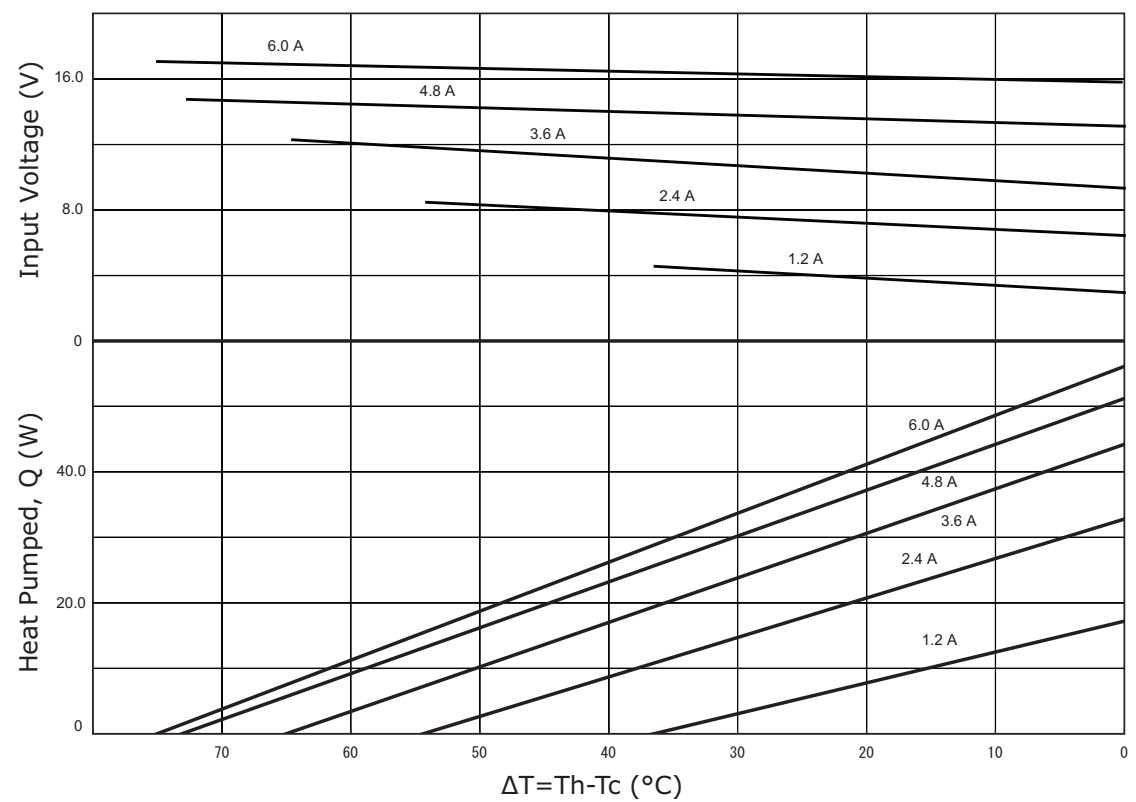
	MATERIAL	PLATING
ceramic plate	96% Al_2O_3	
wire leads	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

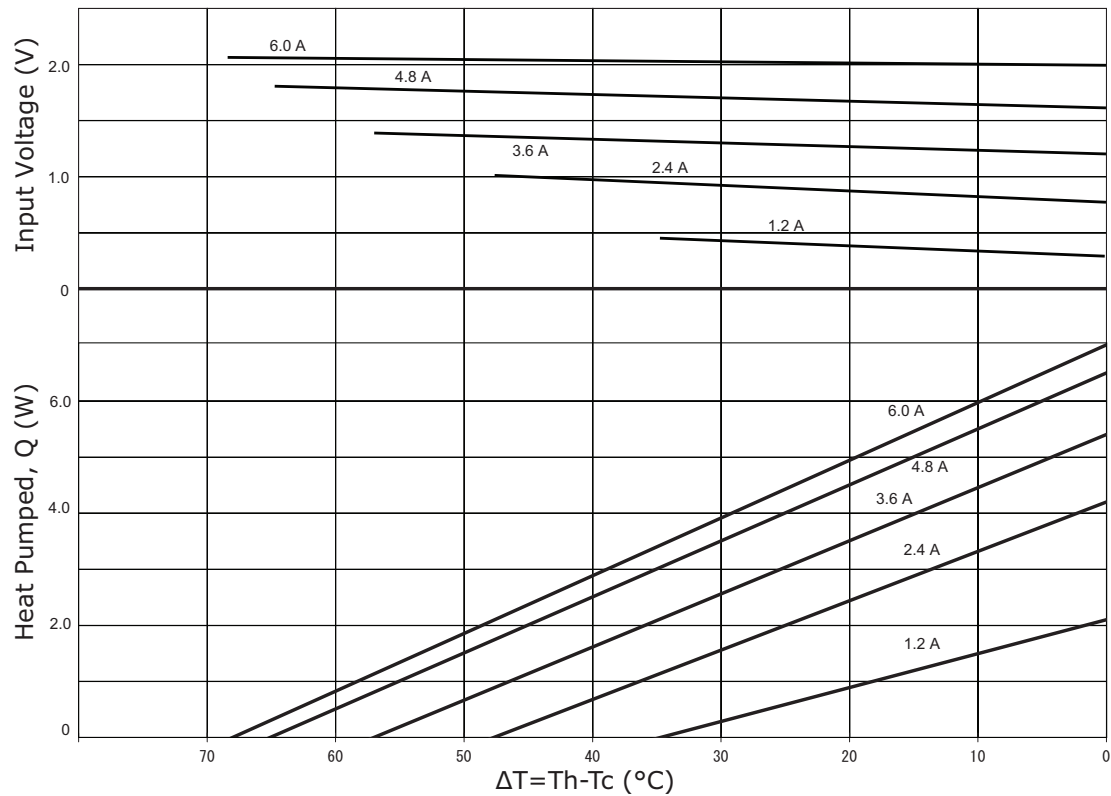
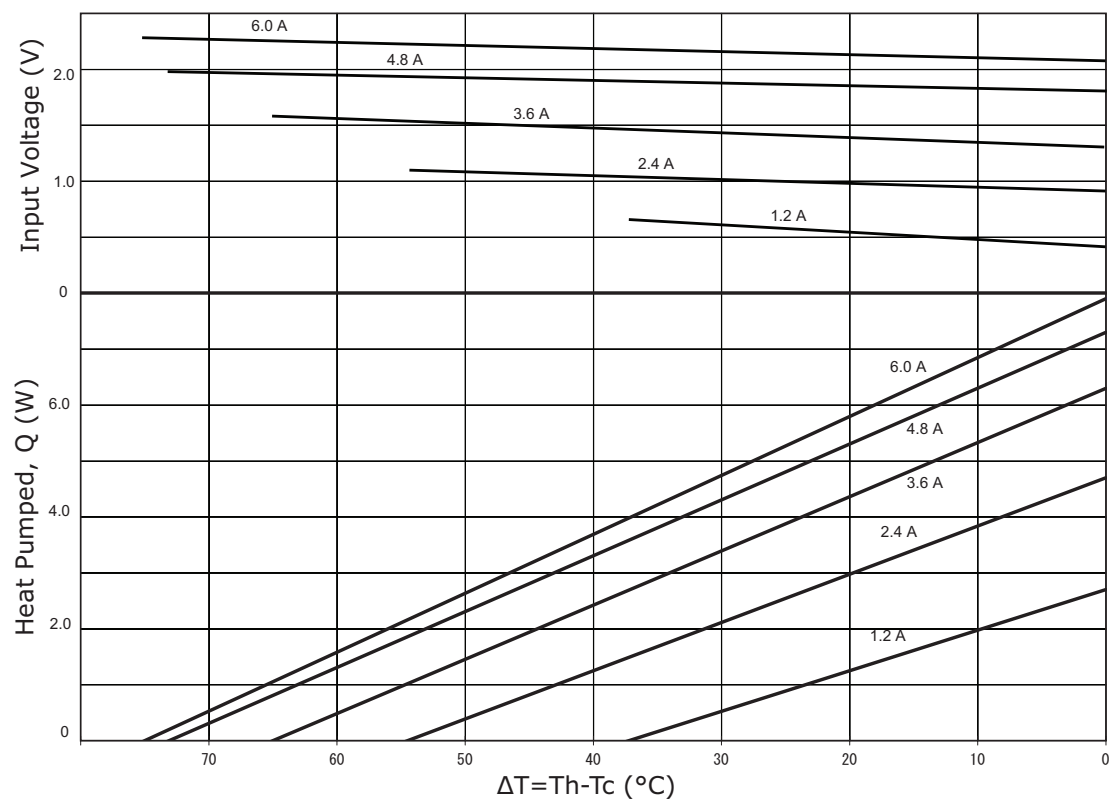


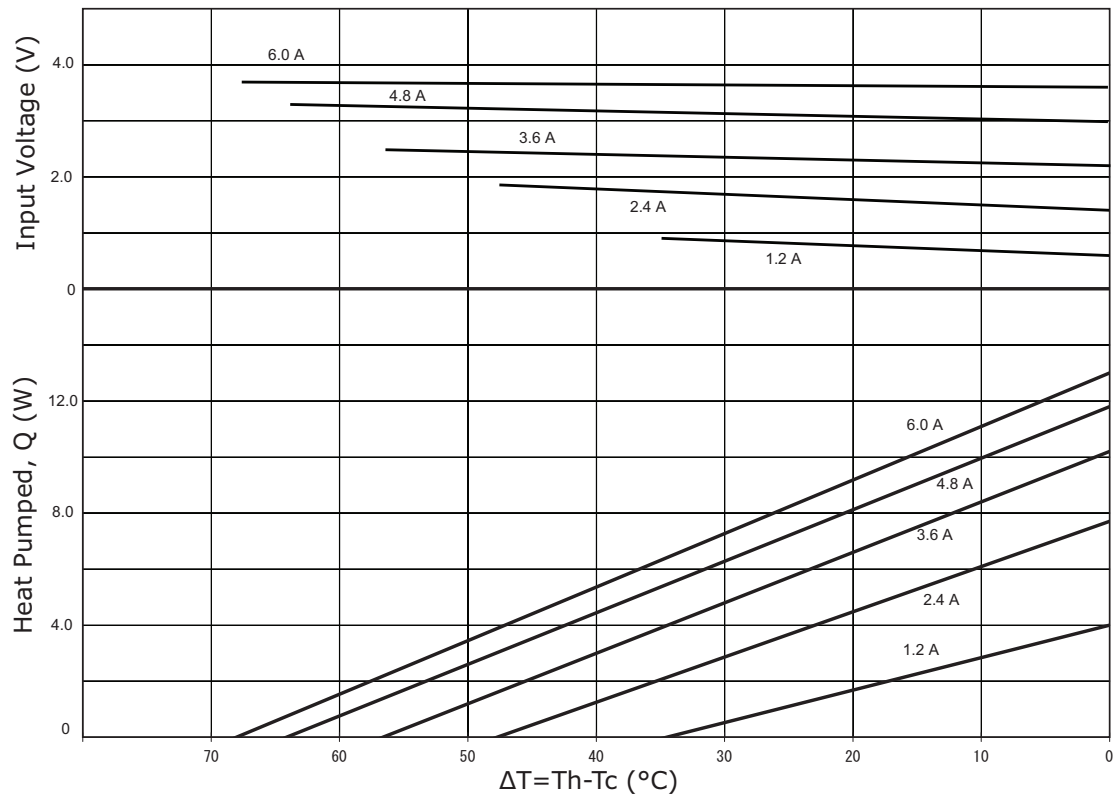
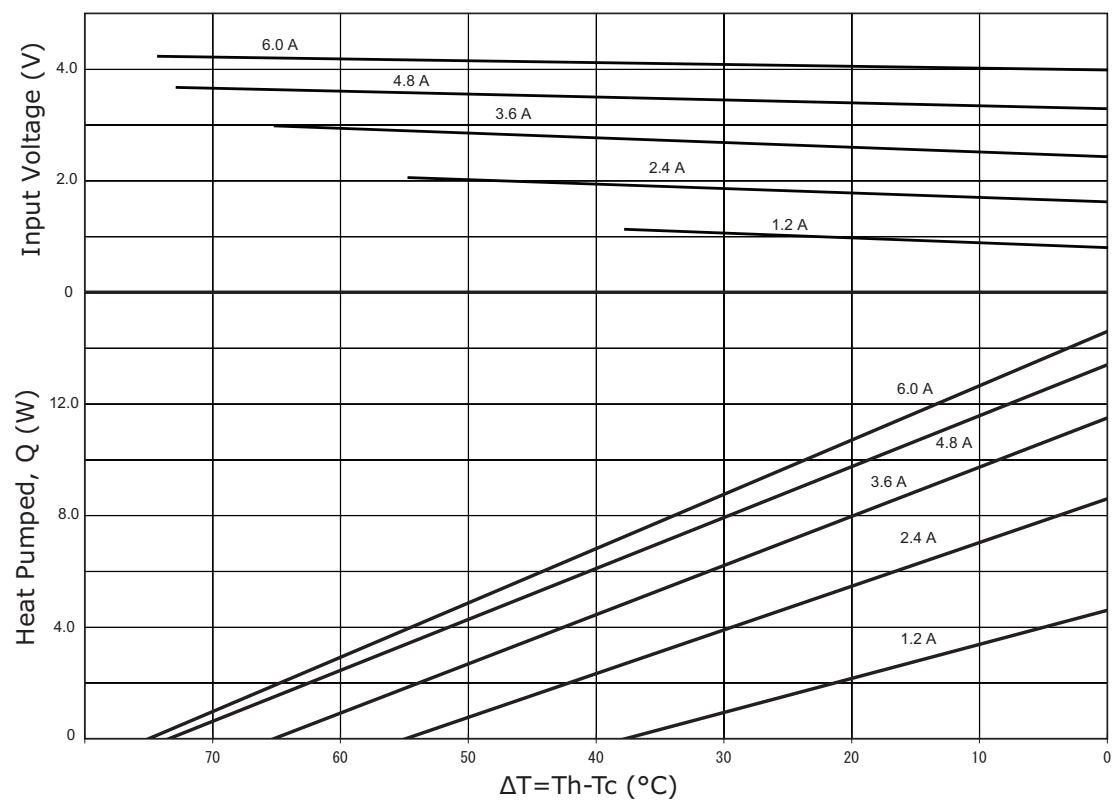
MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP60133	15 ± 0.3	15 ± 0.3	3.22 ± 0.1
CP60233	20 ± 0.3	20 ± 0.3	3.22 ± 0.1
CP60333	30 ± 0.3	30 ± 0.3	3.22 ± 0.1
CP60140	15 ± 0.3	15 ± 0.3	4.0 ± 0.1
CP60240	20 ± 0.3	20 ± 0.3	4.0 ± 0.1
CP60301540	30 ± 0.3	15 ± 0.3	4.0 ± 0.1
CP60340	30 ± 0.3	30 ± 0.3	4.0 ±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

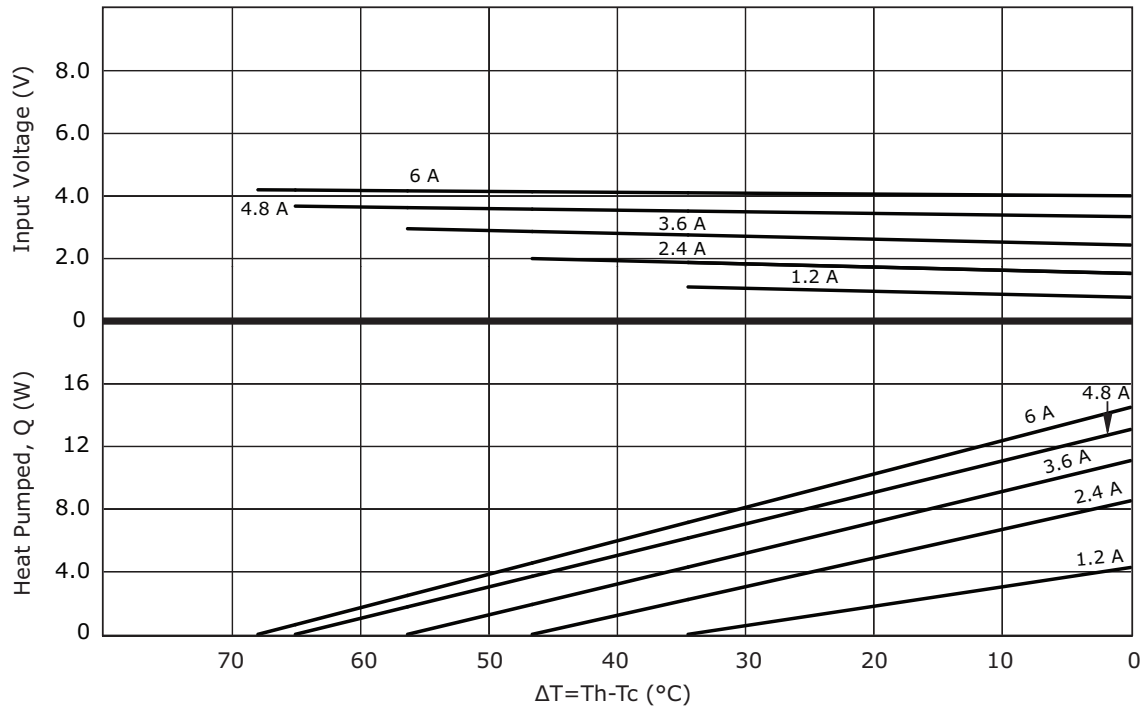
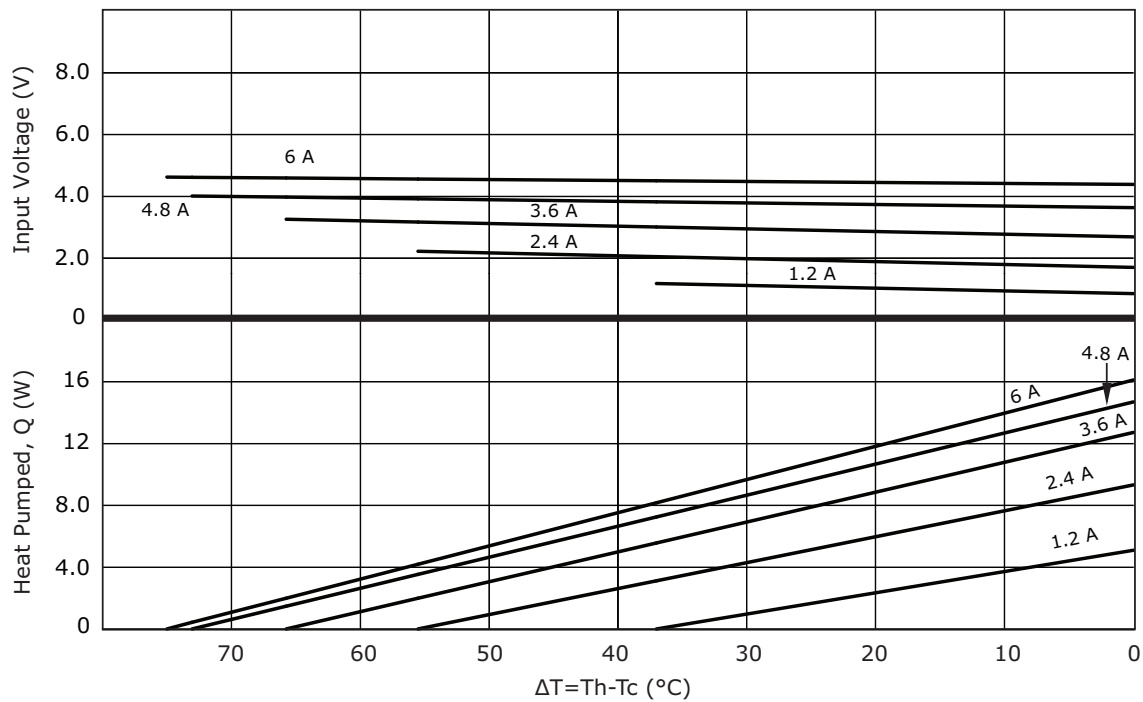
CP60133 PERFORMANCE (Th=27°C)**CP60133 PERFORMANCE (Th=50°C)**

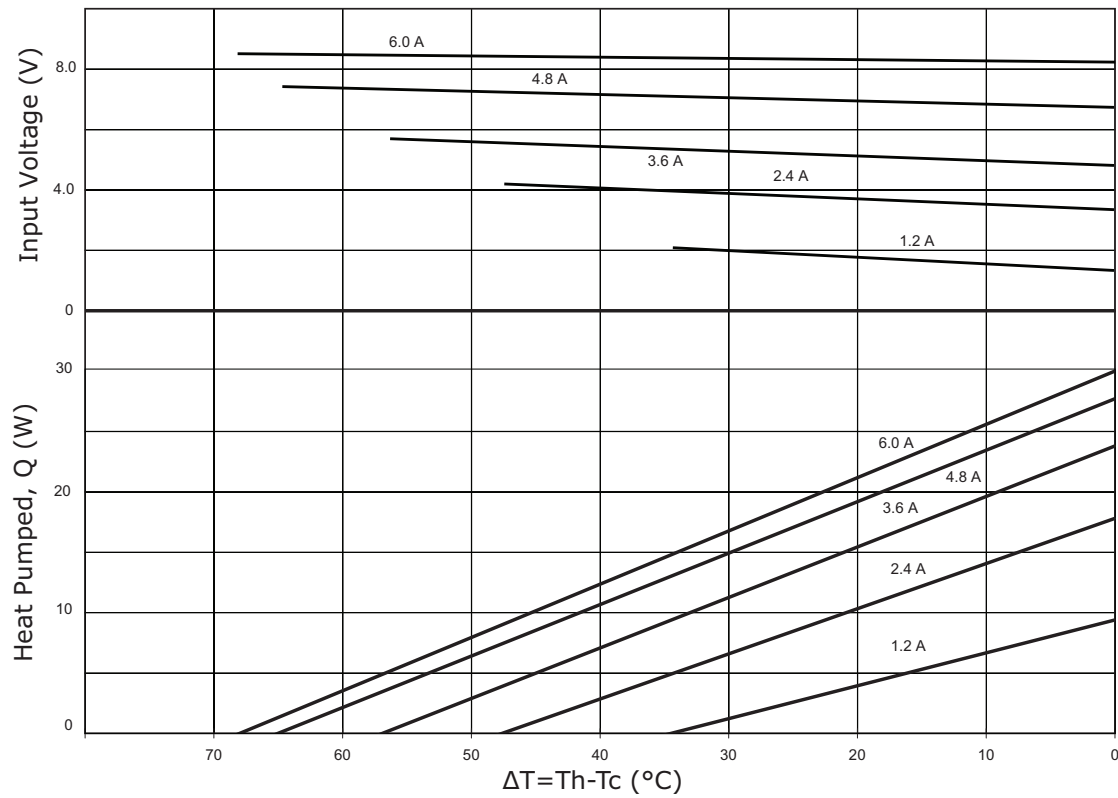
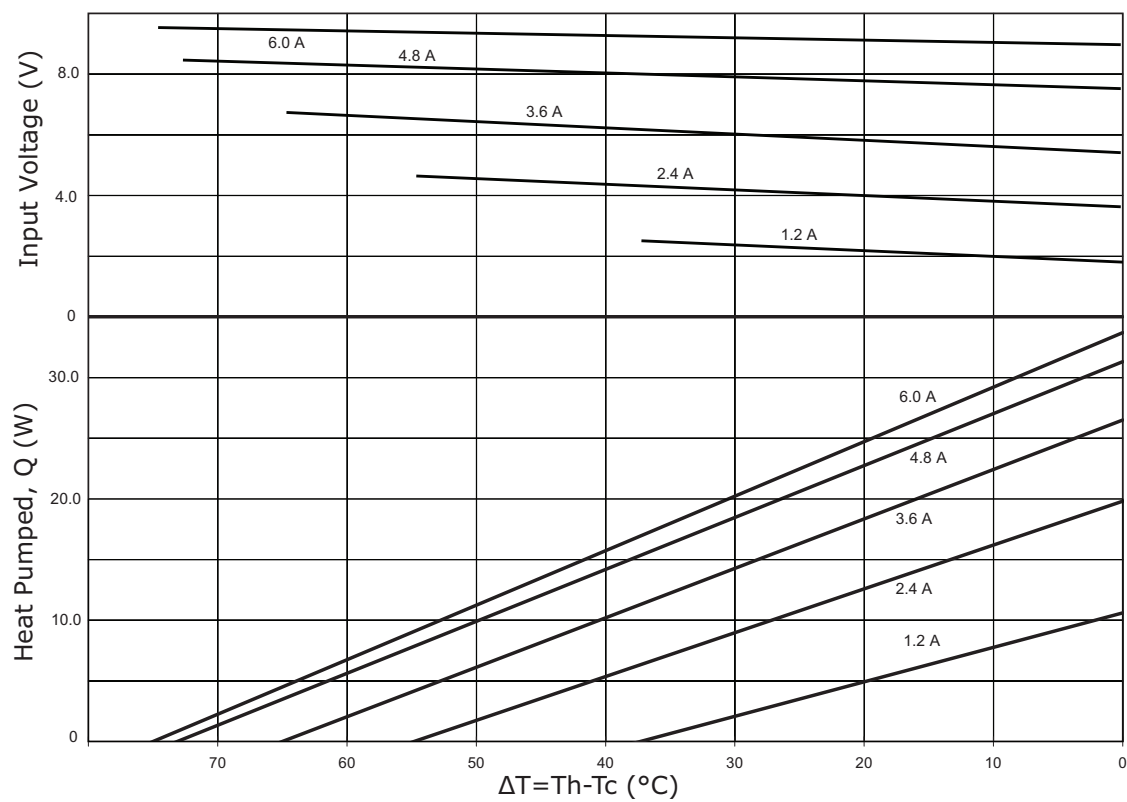
CP60233 PERFORMANCE (Th=27°C)**CP60233 PERFORMANCE (Th=50°C)**

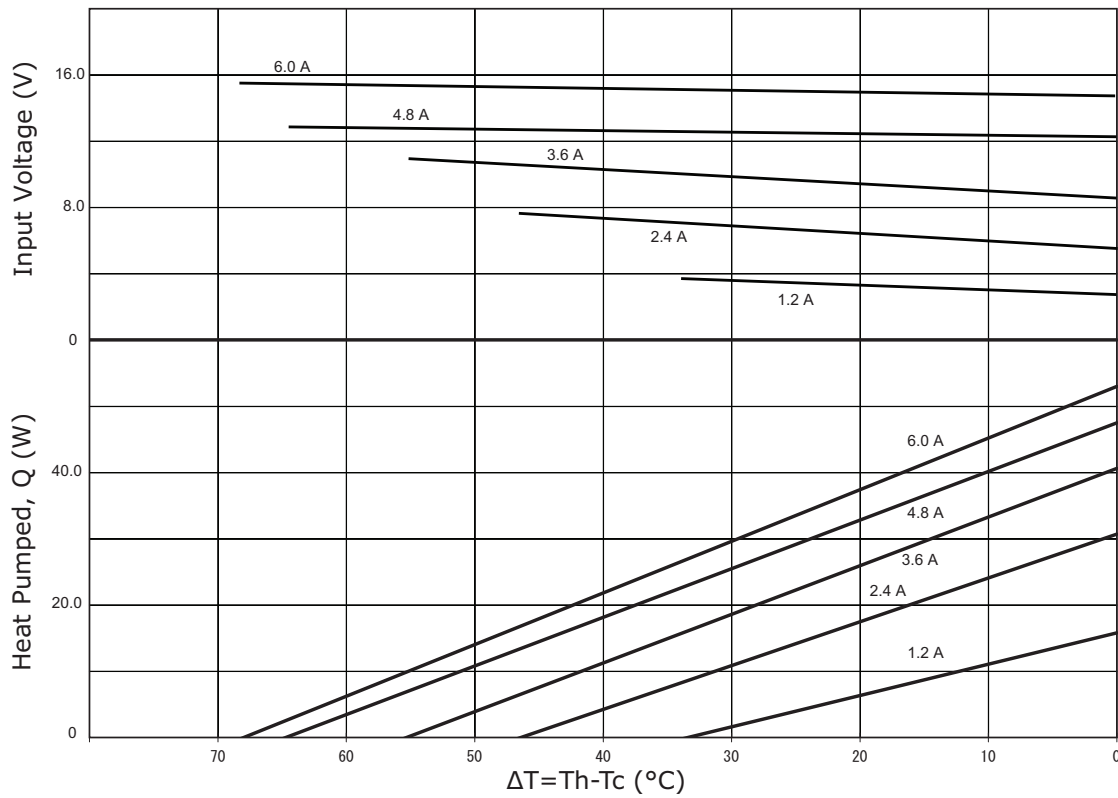
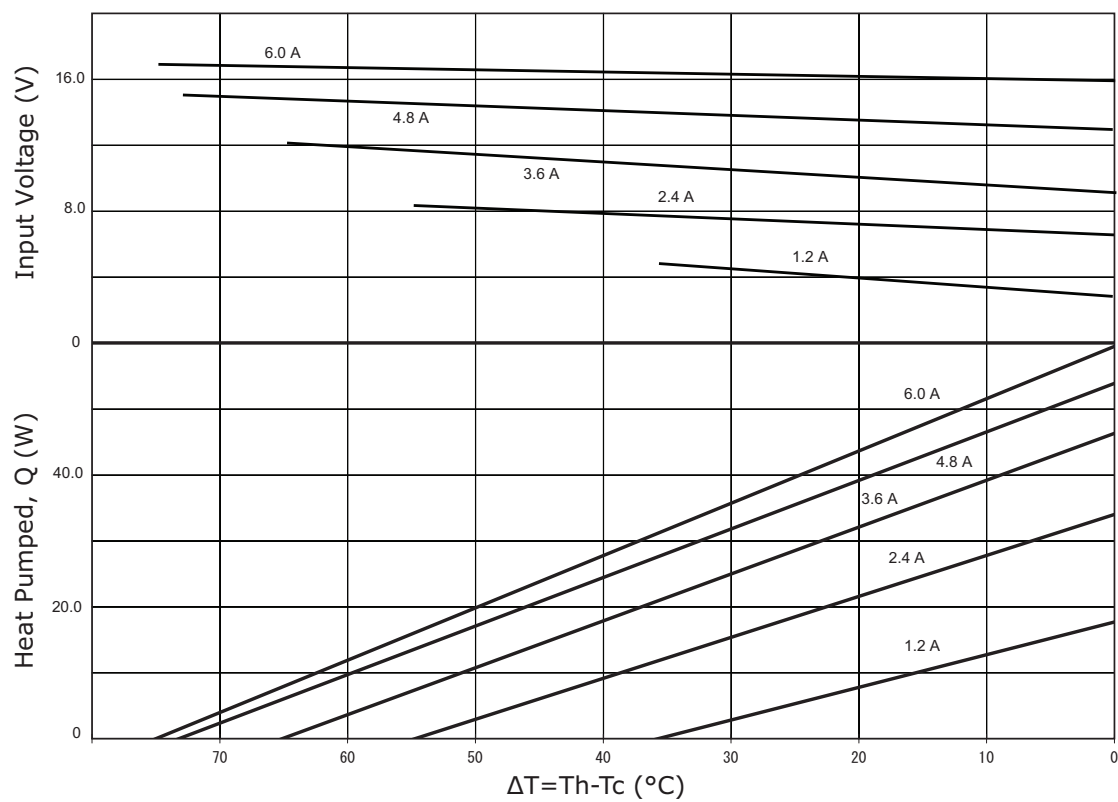
CP60333 PERFORMANCE (Th=27°C)**CP60333 PERFORMANCE (Th=50°C)**

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

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

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