SERIES: CP60 | DESCRIPTION: 6.0 A PELTIER MODULE

FEATURES

- solid state device
- small and lightweight
- precise temperature control
- quiet operation

RoHS

MODEL

MODEL	input voltage max (V)	input current max (A)	output Qmax[1] T_h=27°C (W)	output Qmax[1] T_h=50°C (W)	output ΔTmax[2] T_h=27°C (°C)	output ΔTmax[2] T_h=50°C (°C)
CP60140	2.1	6	7.1	7.9	68	75
CP60133	3.8	6	12.2	13.6	66	72
CP60240	3.8	6	13.0	14.5	68	75
CP60233	8.6	6	27.9	31.2	66	72
CP60340	8.6	6	29.0	32.4	68	75
CP60333	15.4	6	50.5	56.5	66	72
CP60440	15.4	6	53.0	59.3	68	75

Notes: 1. maximum cooling capacity at I_{max}, V_{max}, and ΔT=0°C
2. maximum temperature difference at I_{max}, V_{max}, and Q=0W (maximum parameters are measured in a vacuum)

PART NUMBER KEY

CP60 X XX

Base Number

Length/Width:
1 = 15 x 15 mm
2 = 20 x 20 mm
3 = 30 x 30 mm
4 = 40 x 40 mm (only 4.0 mm thick option)

Thickness:
33 = 3.3 mm
40 = 4.0 mm

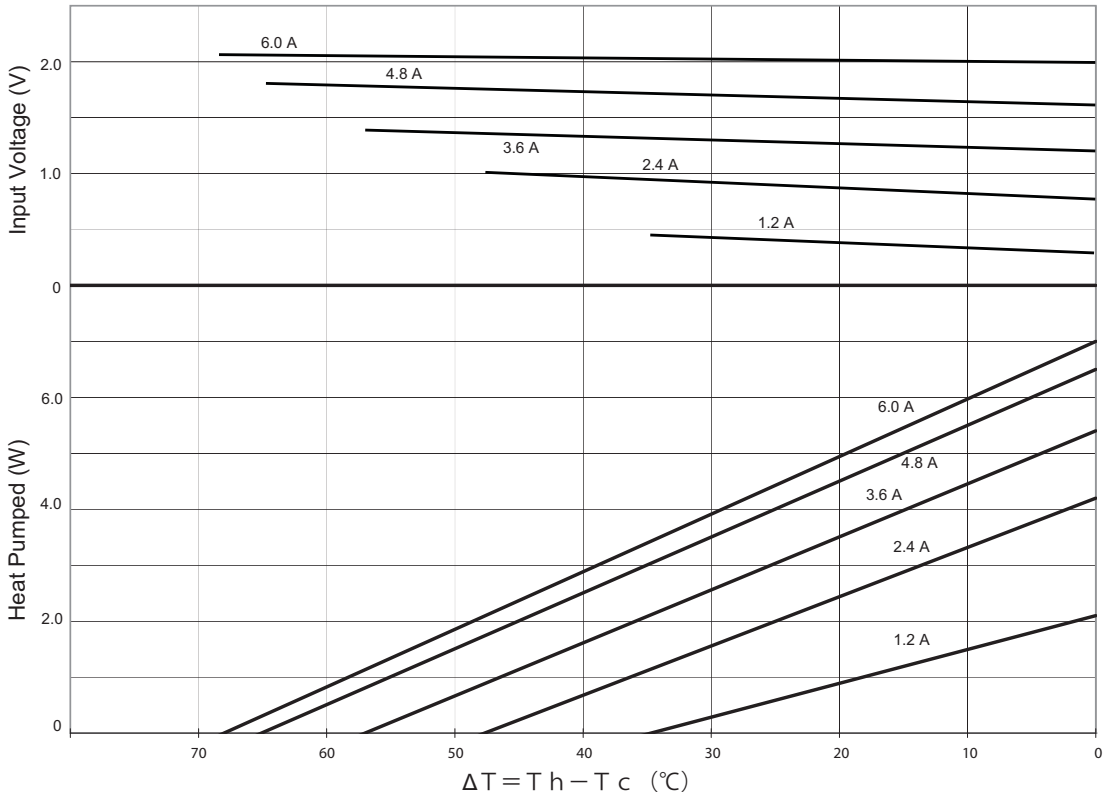
GENERAL

parameter	conditions/description	min	typ	max	units
internal resistance[3]	CP60140	0.261	0.290	0.319	Ω
	CP60133	0.45	0.50	0.55	Ω
	CP60240	0.477	0.530	0.583	Ω
	CP60233	1.08	1.2	1.32	Ω
	CP60340	1.089	1.210	1.331	Ω
	CP60333	1.98	2.2	2.42	Ω
	CP60440	1.953	2.170	2.387	Ω
solder melting temperature	connection between termoelectric pairs			138	°C
assembly compression				98.07 10	N/cm^2 kgf/cm^2
hot side plate				80	°C
MTBF				200,000	hours

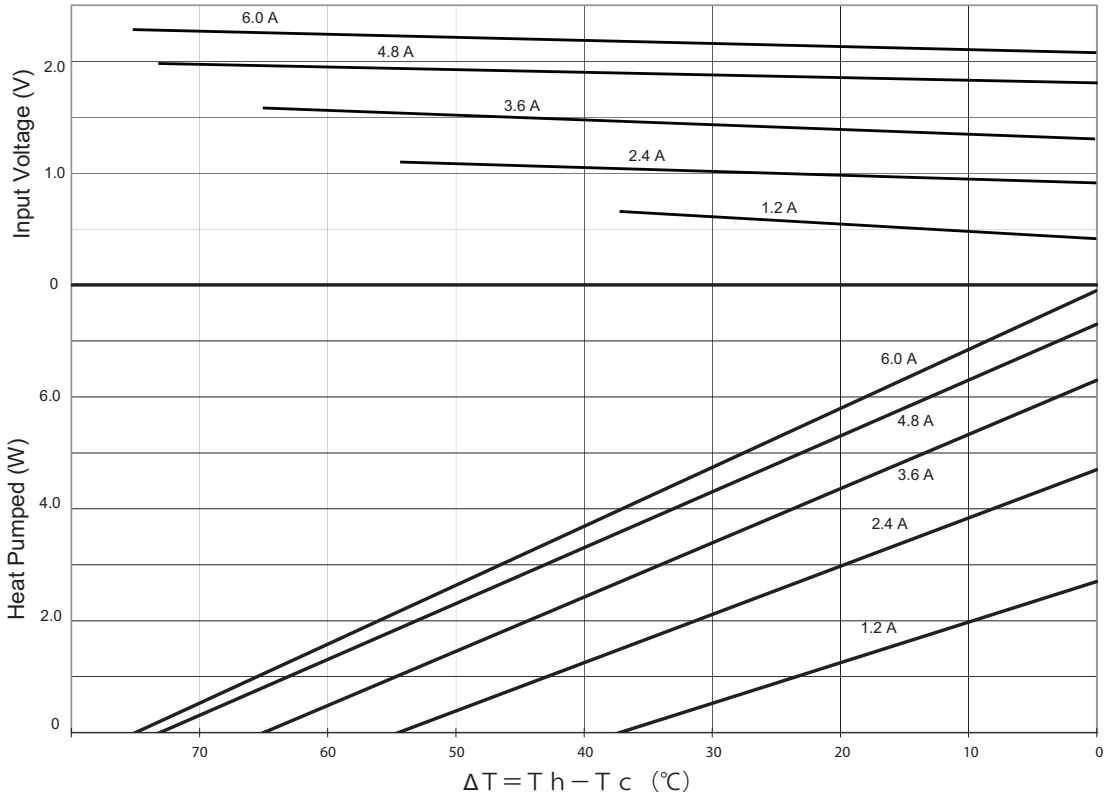
Notes: 3. measured by AC 4-terminal method at 25°C

For further information and product selection refer to peltier applicaftion notes.pdf

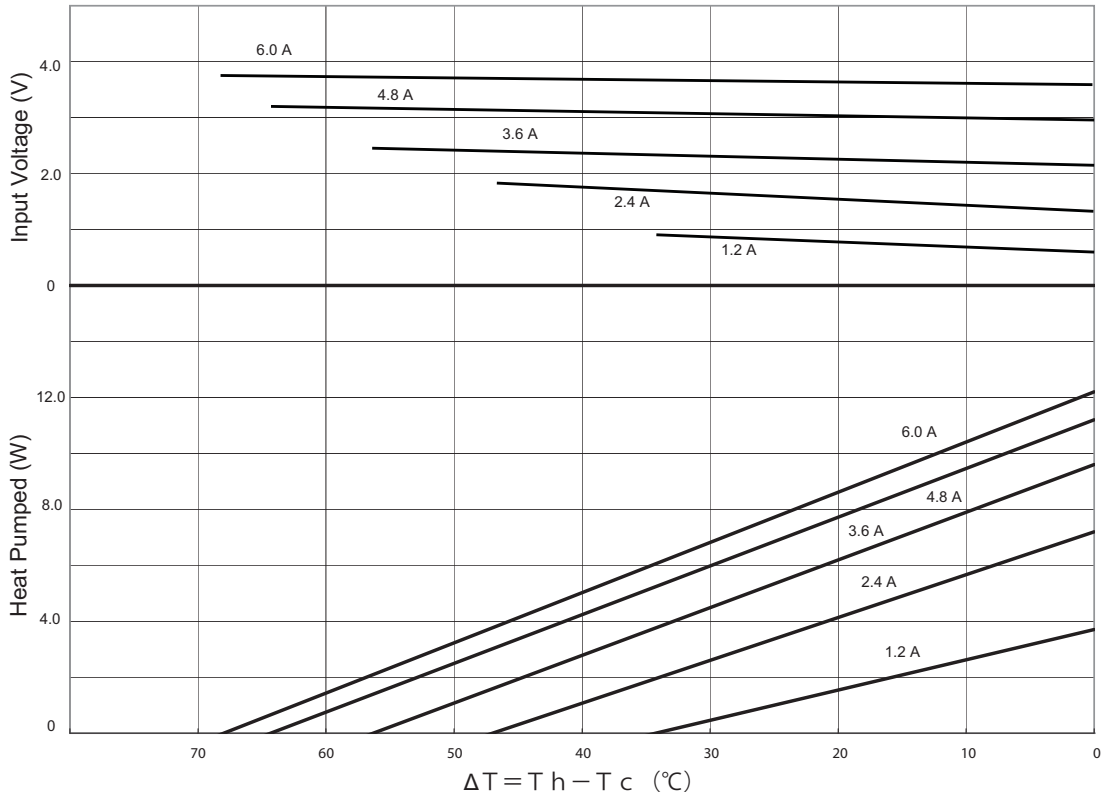
CP60140 PERFORMANCE (Th=27°C)



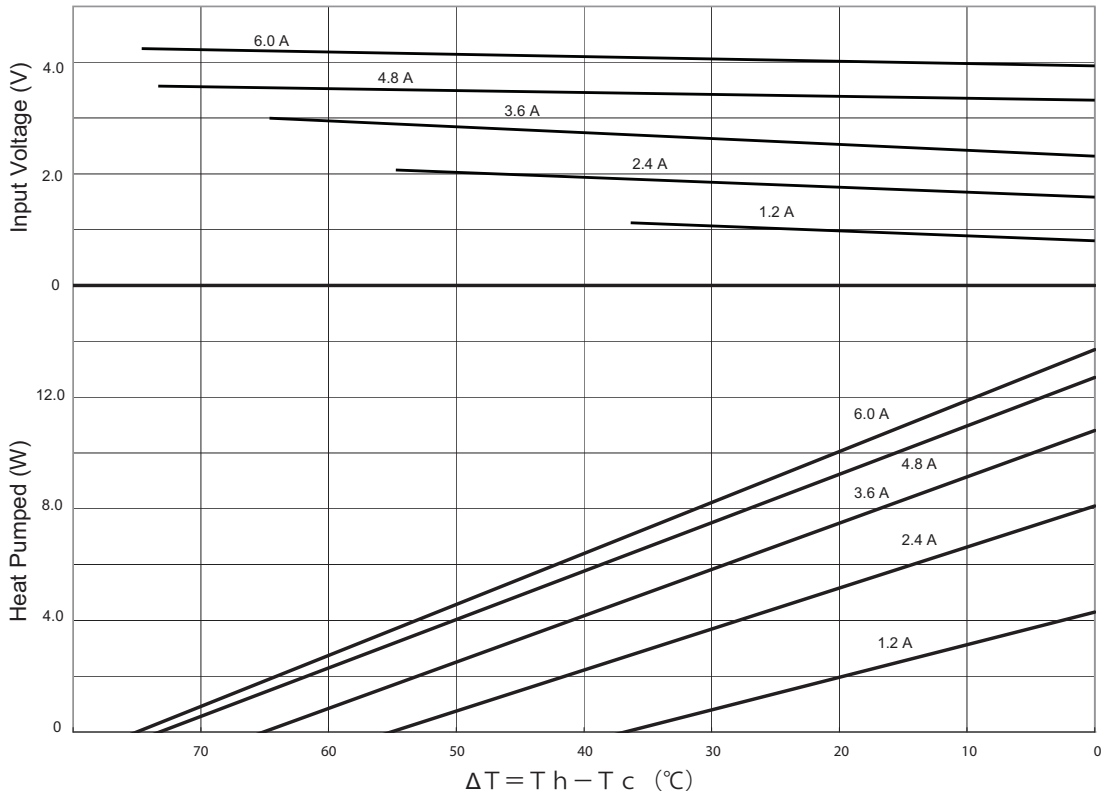
CP60140 PERFORMANCE (Th=50°C)



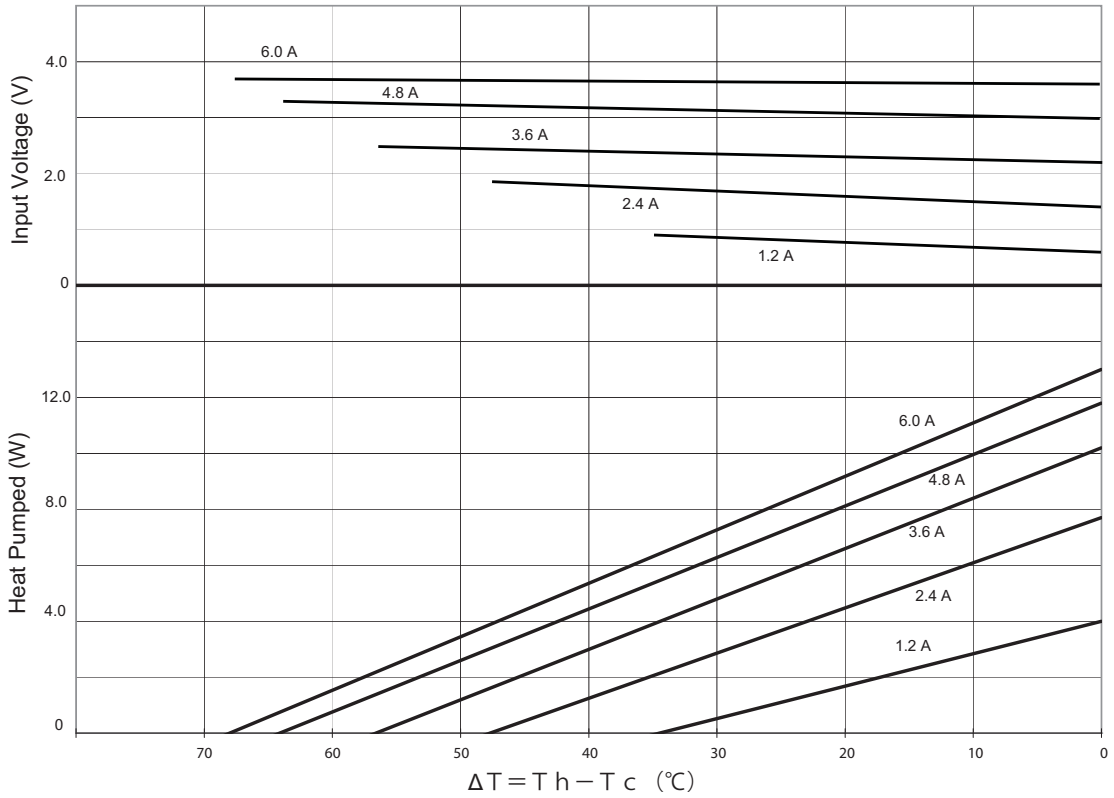
CP60133 PERFORMANCE (Th=27°C)



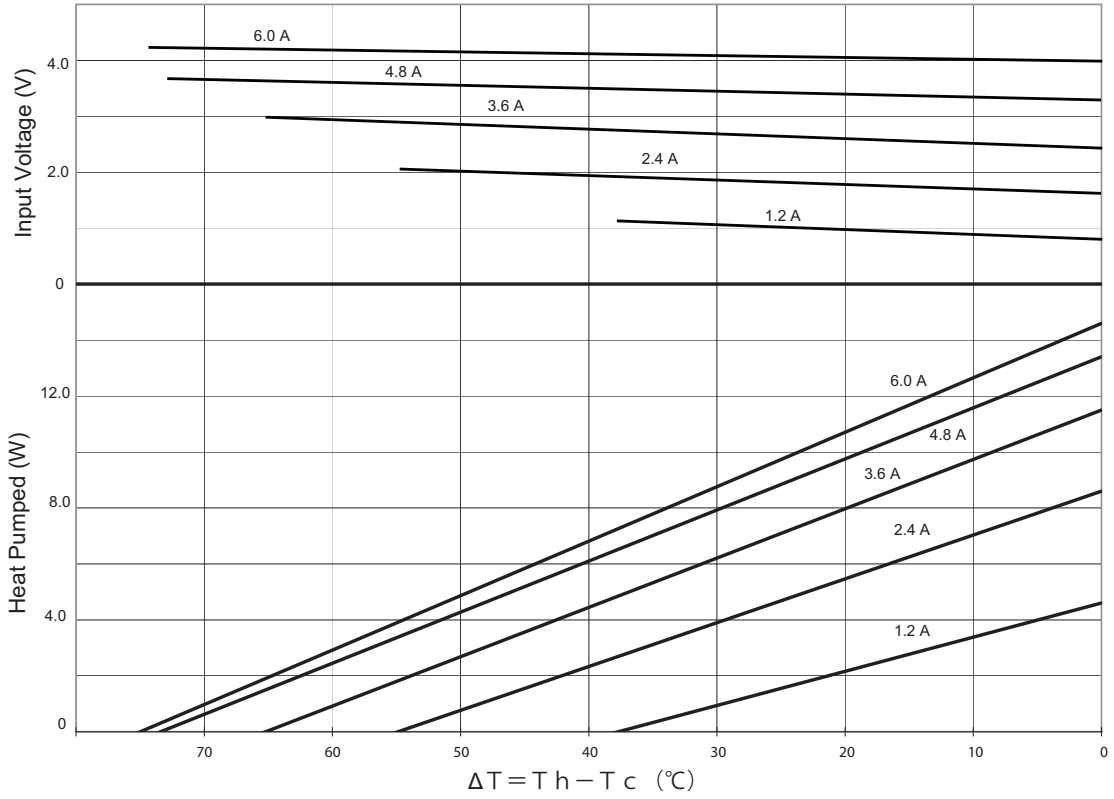
CP60133 PERFORMANCE (Th=50°C)



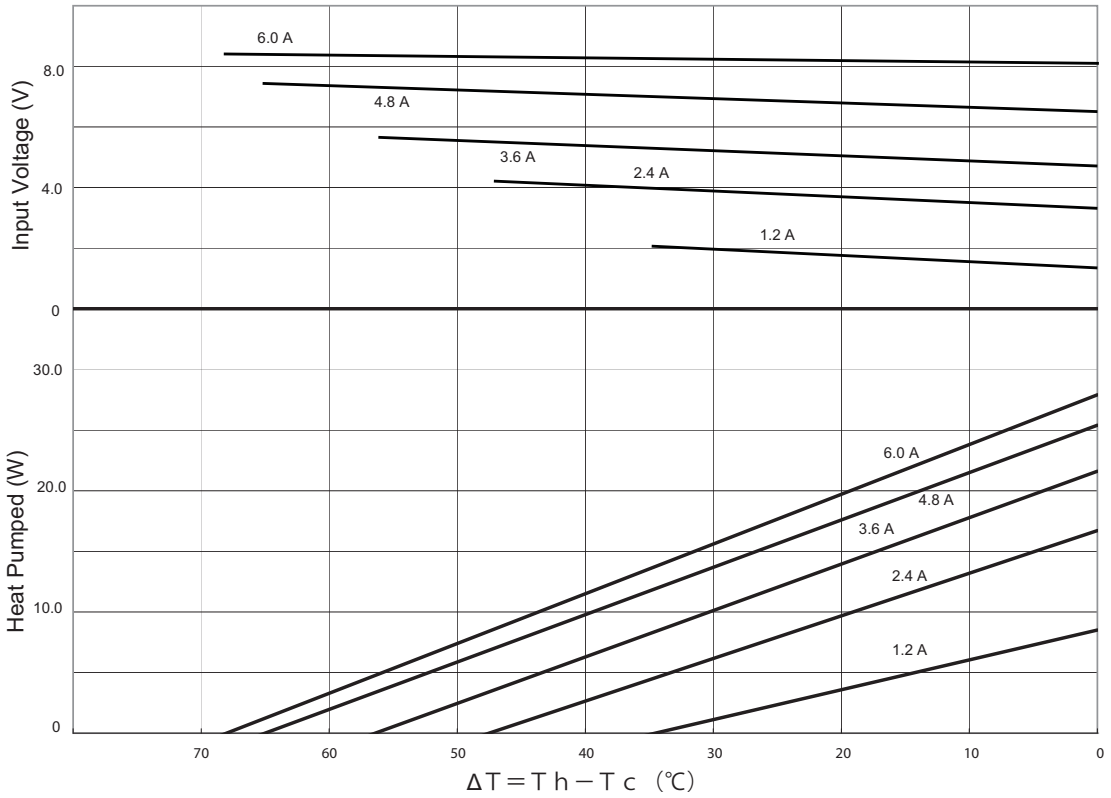
CP60240 PERFORMANCE (Th=27°C)



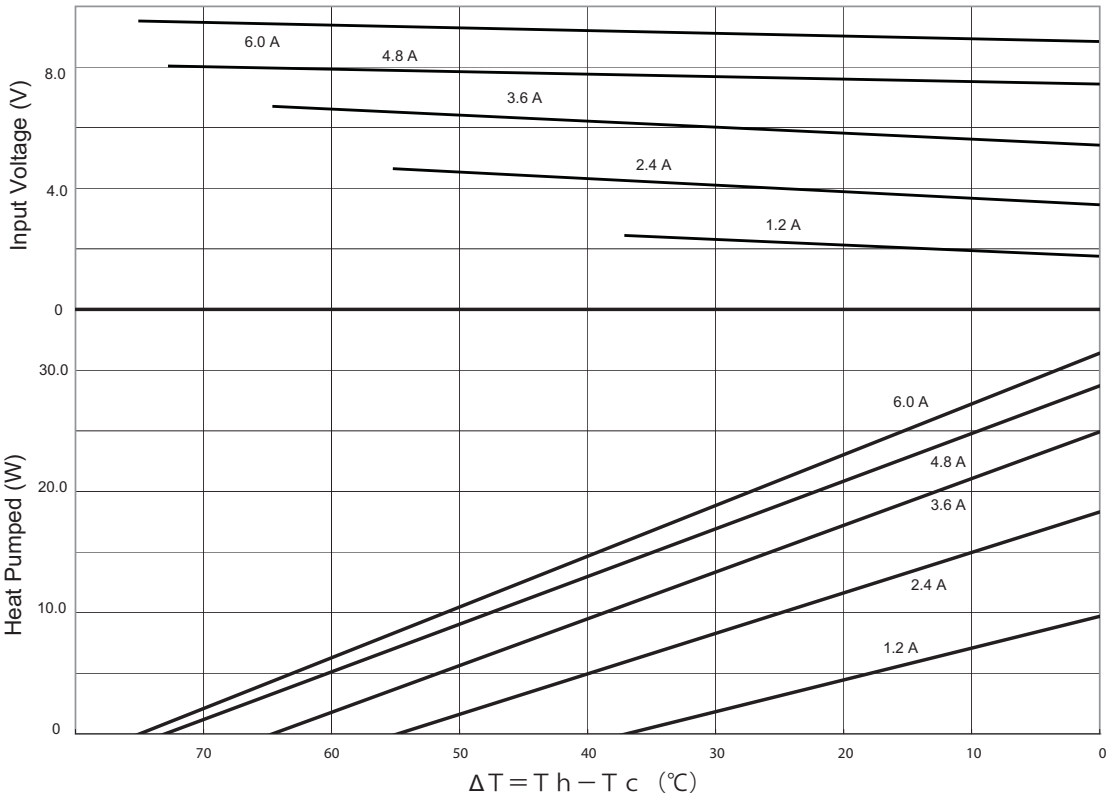
CP60240 PERFORMANCE (Th=50°C)



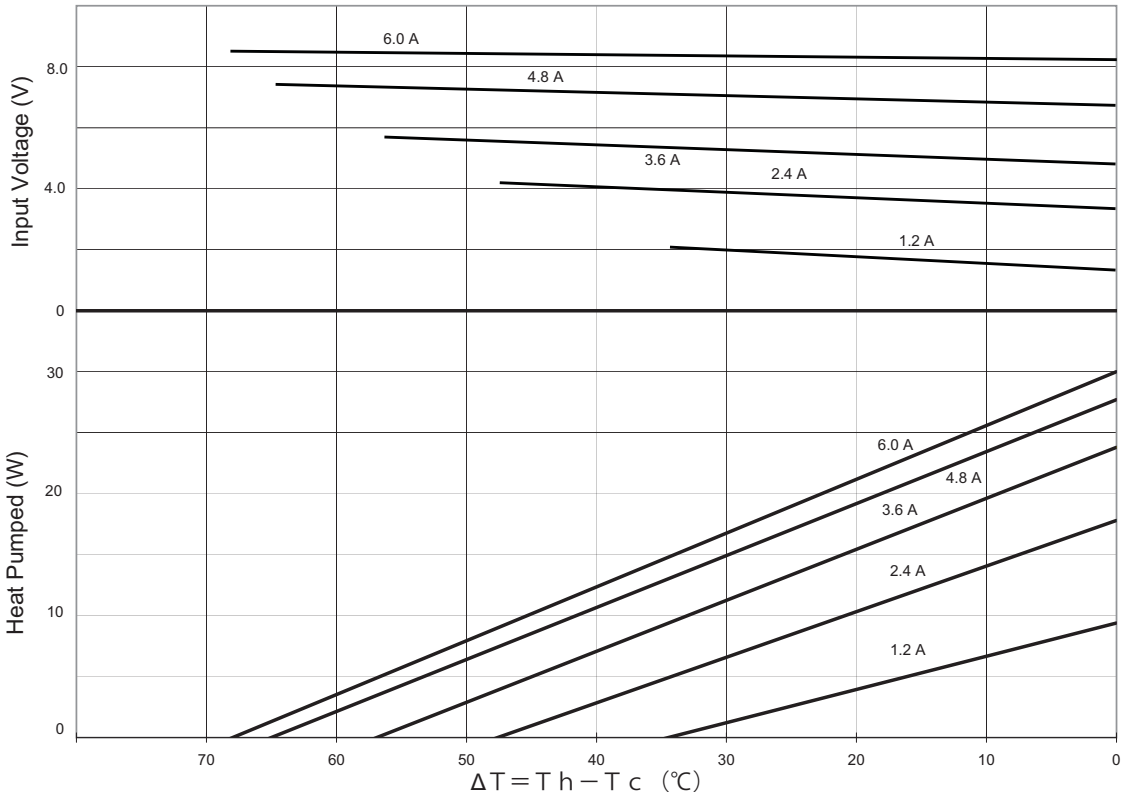
CP60233 PERFORMANCE (Th=27°C)



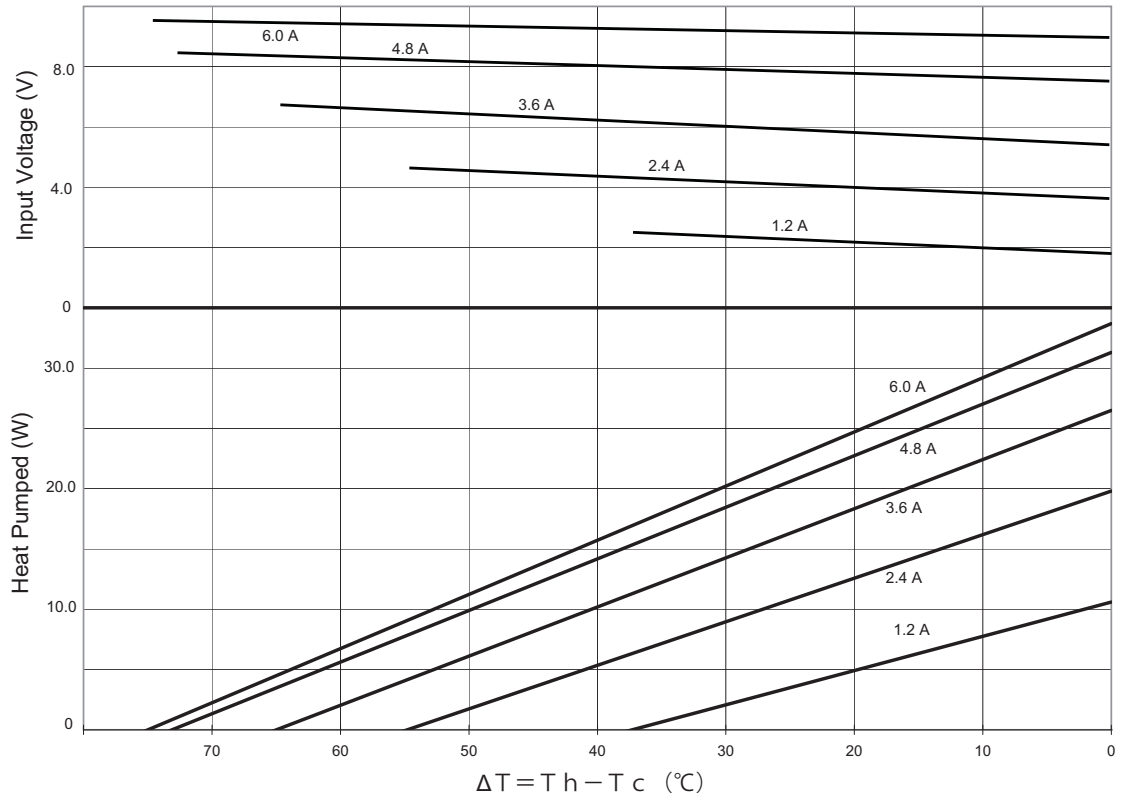
CP60233 PERFORMANCE (Th=50°C)



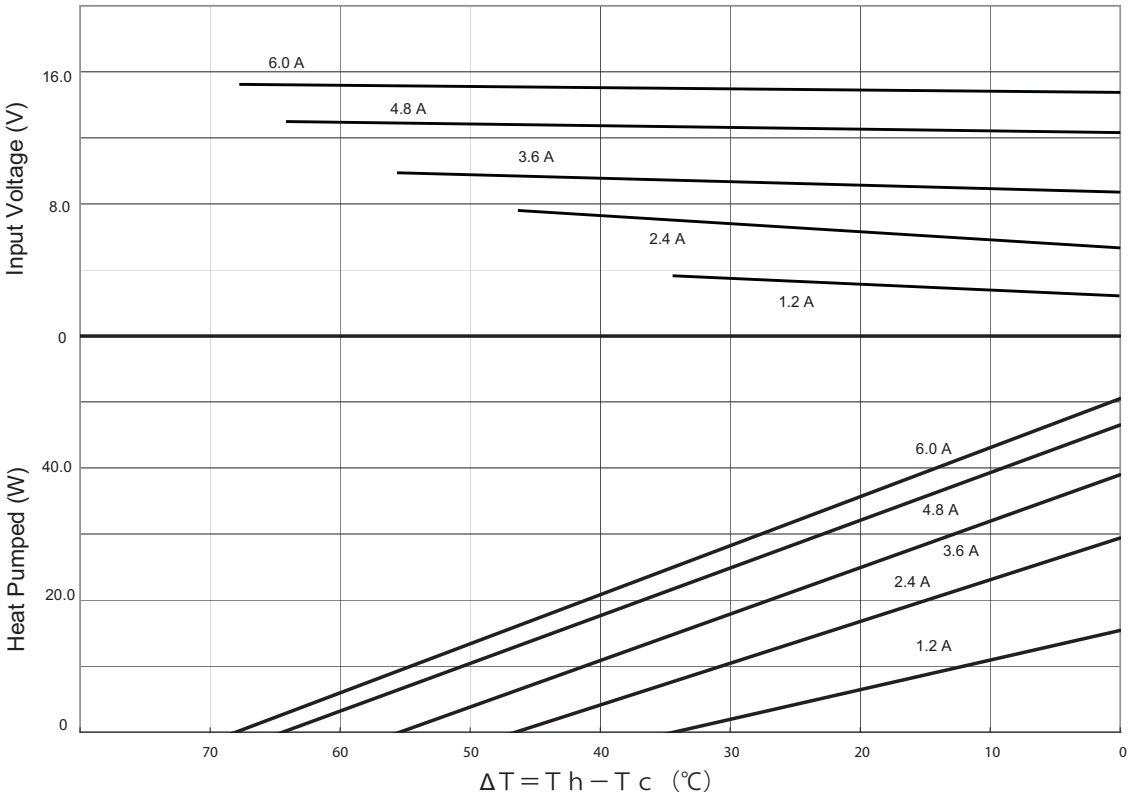
CP60340 PERFORMANCE (Th=27°C)



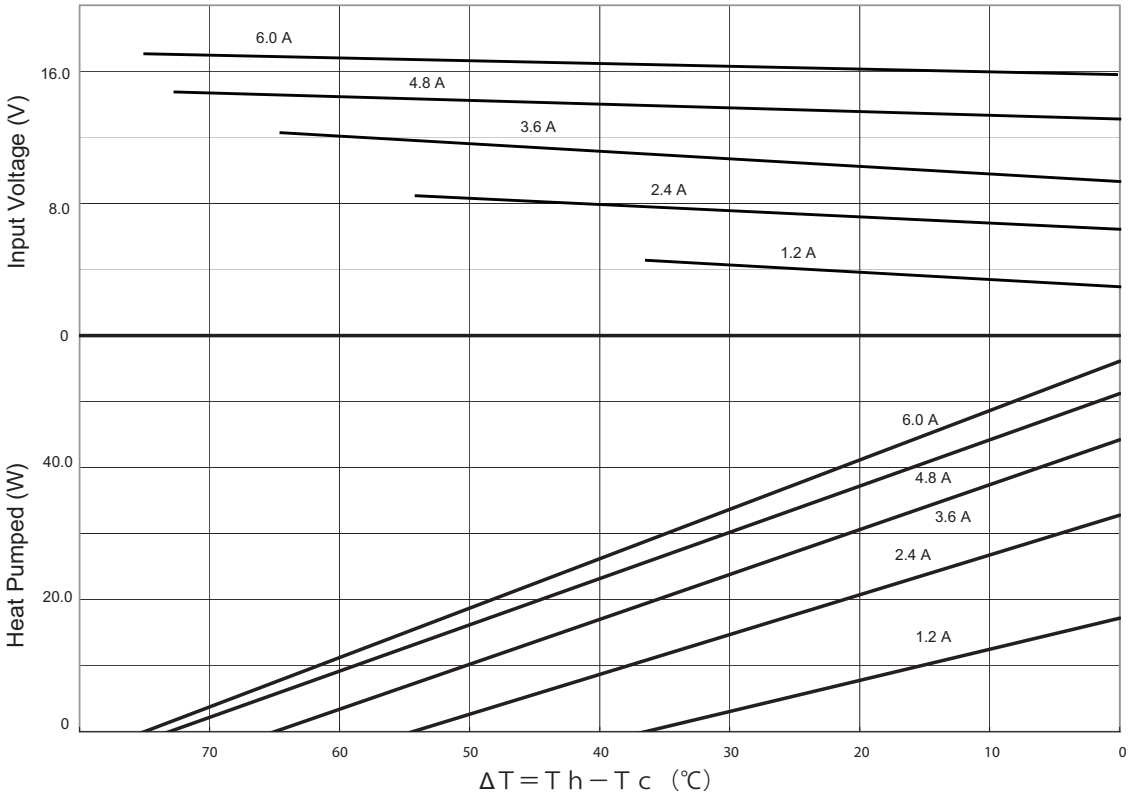
CP60340 PERFORMANCE (Th=50°C)



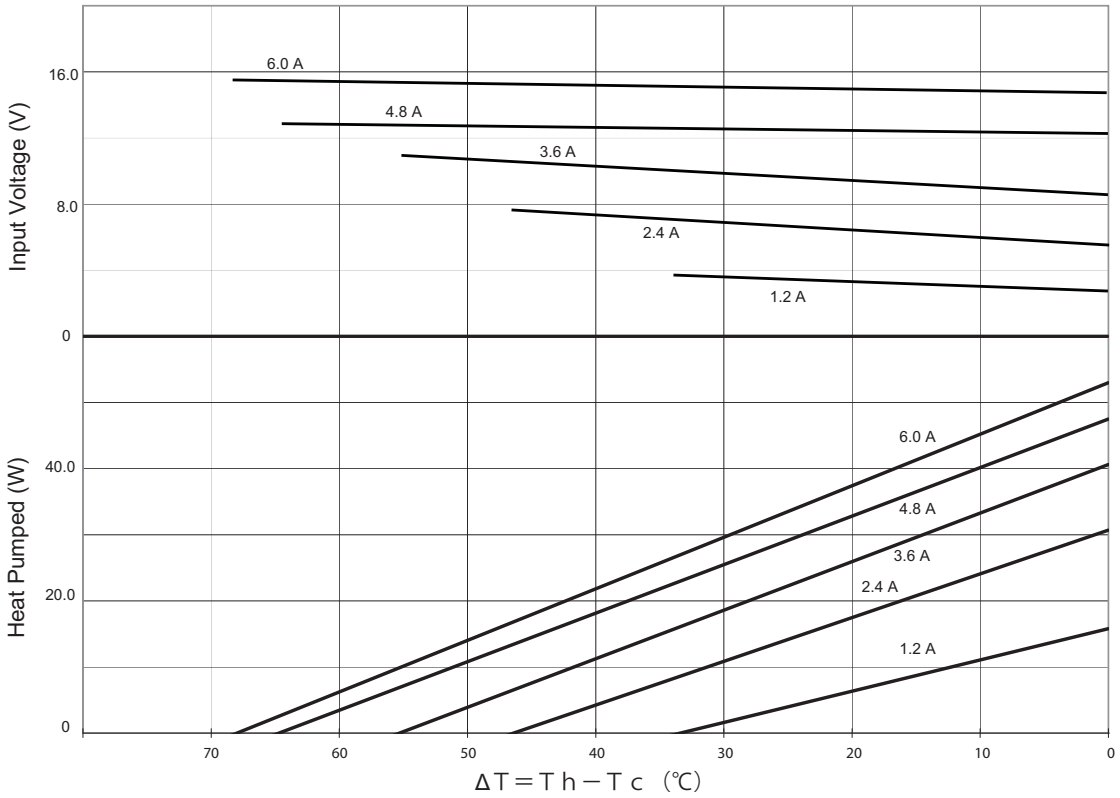
CP60333 PERFORMANCE (Th=27°C)



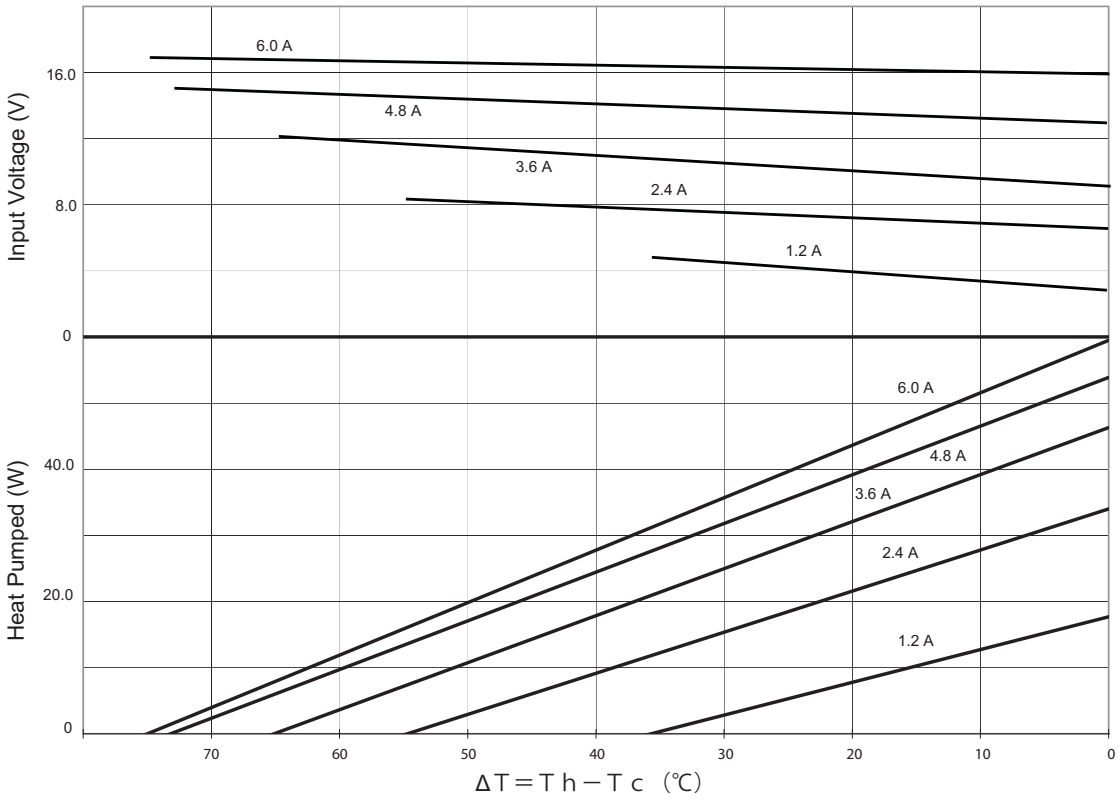
CP60333 PERFORMANCE (Th=50°C)



CP60440 PERFORMANCE (Th=27°C)

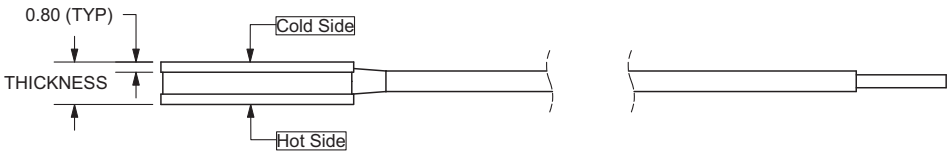


CP60440 PERFORMANCE (Th=50°C)

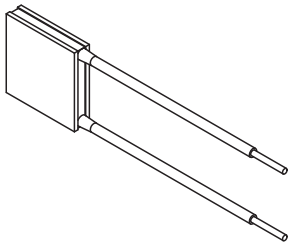


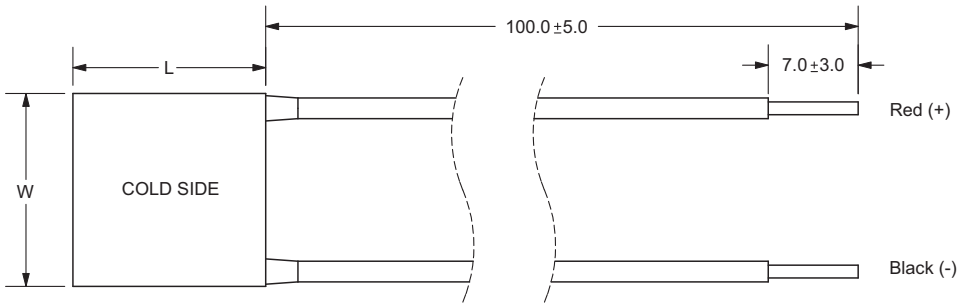
MECHANICAL DRAWING

units: mm



	MATERIAL	PLATING
ceramic plate	Al_2O_3 (Alumina)	
sealer	silicon rubber RTV	
lead wire (3.3 mm thick)	UL1430 (22AWG)	tin
lead wire (4.0 mm thick)	UL1674 (20AWG)	tin
joint cover	silicon rubber RTV	





MODEL	LENGTH x WIDTH (mm)	THICKNESS (mm)
CP60140	15 x 15 ±0.3	4.0 ±0.1
CP60133	15 x 15 ±0.3	3.3 ±0.1
CP60240	20 x 20 ±0.3	4.0 ±0.1
CP60233	20 x 20 ±0.3	3.3 ±0.1
CP60340	30 x 30 ±0.3	4.0 ±0.1
CP60333	30 x 30 ±0.3	3.3 ±0.1
CP60440	40 x 40 ±0.3	4.0 ±0.1

REVISION HISTORY

rev.	description	date
1.0	initial release	09/03/2009
1.01	applied new template	05/08/2012

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

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