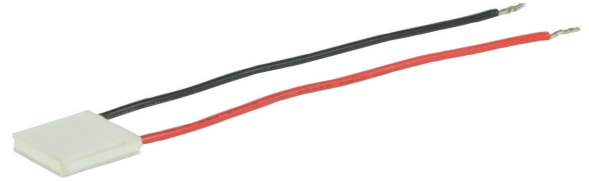


SERIES: CP60H | **DESCRIPTION:** PELTIER MODULE

FEATURES

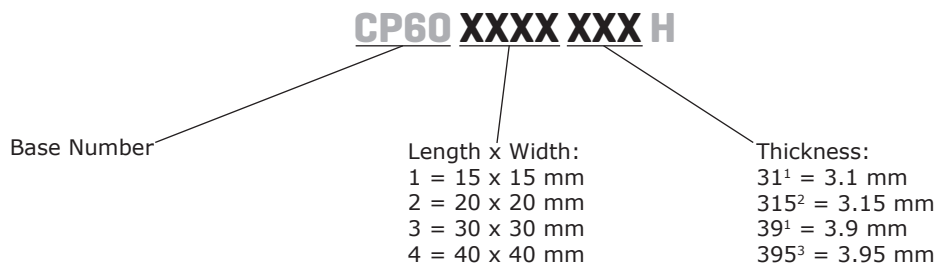
- arcTEC™ structure on select models
- enhanced reliability for high thermal cycling
- superior thermal performance
- silicon sealed
- wide ΔT max
- low profile
- precise temperature control
- solid state construction



MODEL	input voltage ¹ max (Vdc)	input current ² max (A)	output Qmax ³		output ΔT max ⁴	
			T _h =27°C (W)	T _h =50°C (W)	T _h =27°C (°C)	T _h =50°C (°C)
CP60131H	3.8	6.0	13	14.3	70	77
CP60231H	8.8	6.0	29.7	32.7	70	77
CP603315H ⁵	15.7	6.0	53.1	59.1	70	77
CP60139H	2.1	6.0	7.4	8.2	70	77
CP60239H	3.8	6.0	13.6	14.9	70	77
CP603395H ⁵	8.8	6.0	31.1	34.2	70	77
CP604395H ⁵	15.7	6.0	55.6	61.0	70	77

- 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 $\Delta T=0^\circ\text{C}$
 4. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)
 5. Designed with arcTEC™ structure.

PART NUMBER KEY



- Notes:
1. Only available in 15 x 15 and 20 x 20 mm size
 2. Only available in 30 x 30 mm size
 3. Only available in 30 x 30 and 40 x 40 mm size

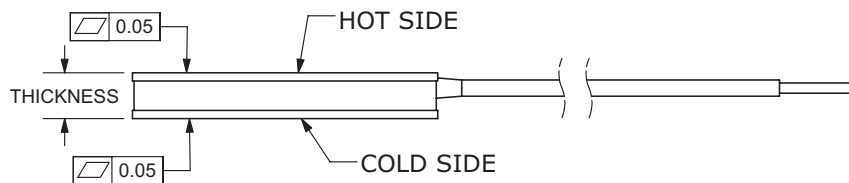
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance ¹	CP60131H	0.405	0.45	0.495	Ω
	CP60231H	0.945	1.05	1.155	Ω
	CP603315H	1.71	1.90	2.09	Ω
	CP60139H	0.27	0.30	0.33	Ω
	CP60239H	0.495	0.55	0.605	Ω
	CP603395H	1.125	1.25	1.375	Ω
	CP604395H	1.98	2.2	2.42	Ω
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	2011/65/EU				

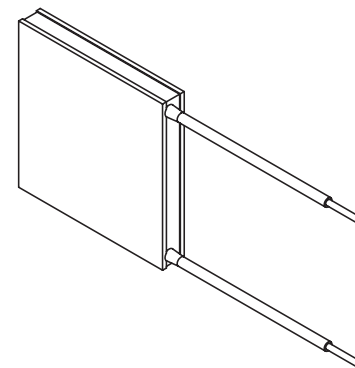
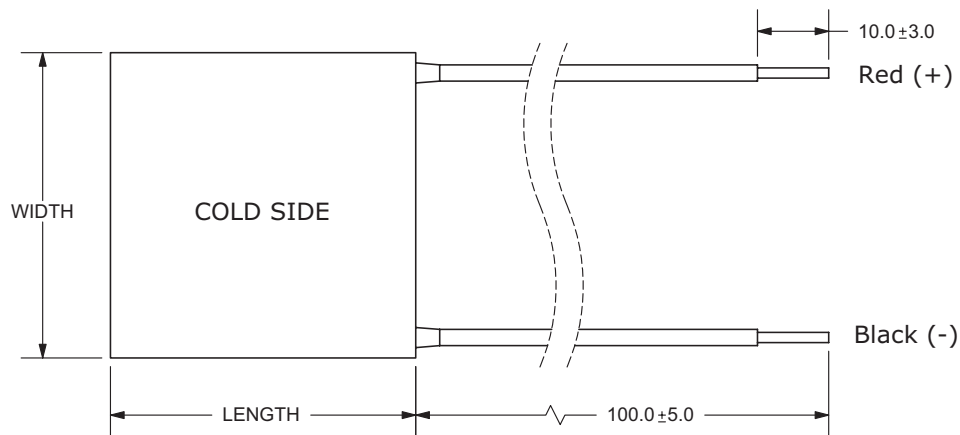
Note: 1. Measured by AC 4-terminal method at 25°C

MECHANICAL DRAWING

units: mm

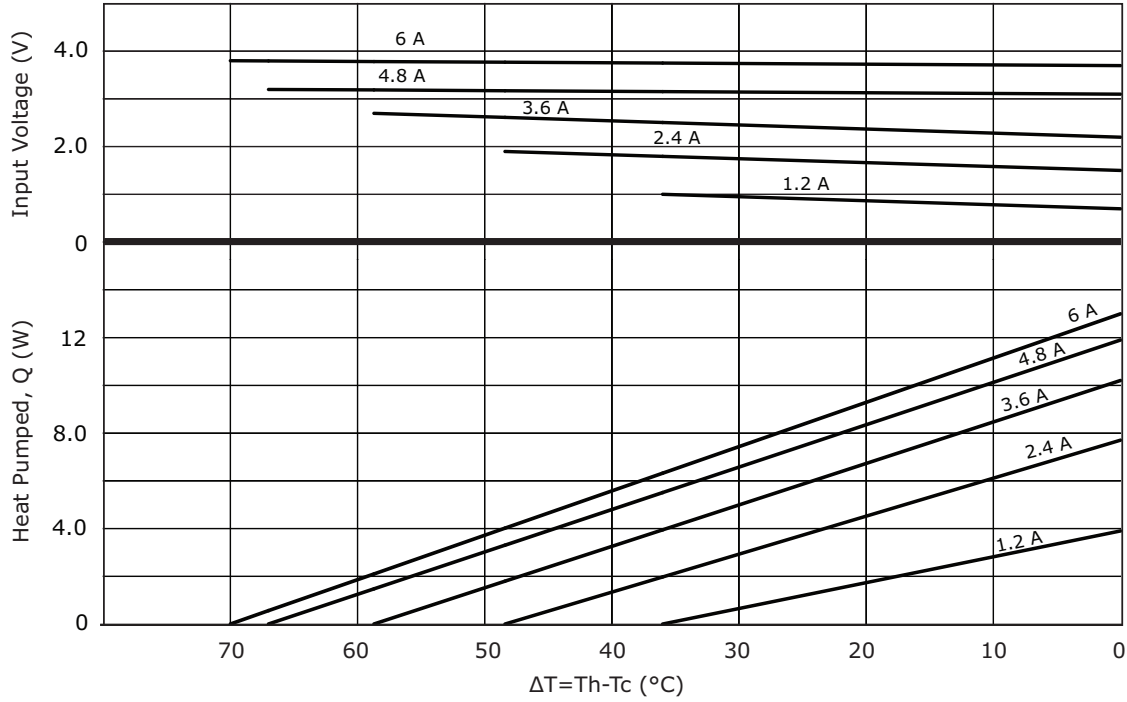


	MATERIAL	PLATING
ceramic plate	96% AL ₂ O ₃	
wire leads (3.1 & 3.15 mm models)	22 AWG	tin
wire leads (3.9 & 3.95 mm models)	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

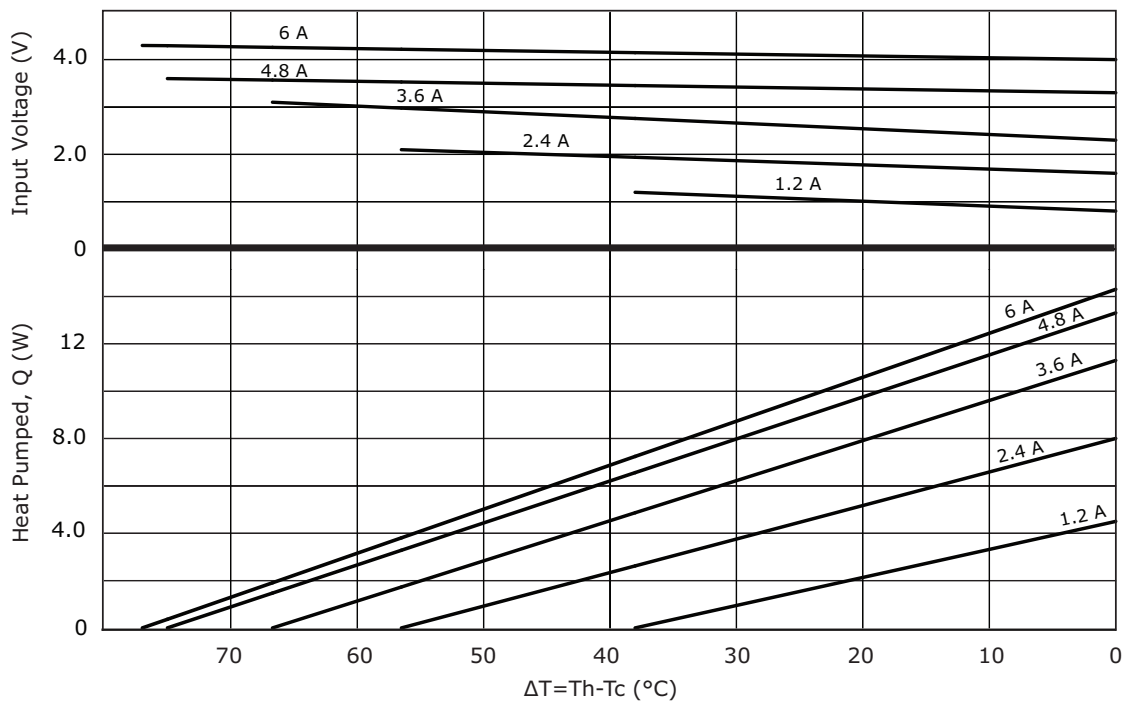


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP60131H	15 ± 0.3	15 ± 0.3	3.1 ± 0.025
CP60231H	20 ± 0.3	20 ± 0.3	3.1 ± 0.025
CP603315H	30 ± 0.3	30 ± 0.3	3.15 ± 0.025
CP60139H	15 ± 0.3	15 ± 0.3	3.9 ± 0.025
CP60239H	20 ± 0.3	20 ± 0.3	3.9 ± 0.025
CP603395H	30 ± 0.3	30 ± 0.3	3.95 ± 0.025
CP604395H	40 ± 0.3	40 ± 0.3	3.95 ± 0.025

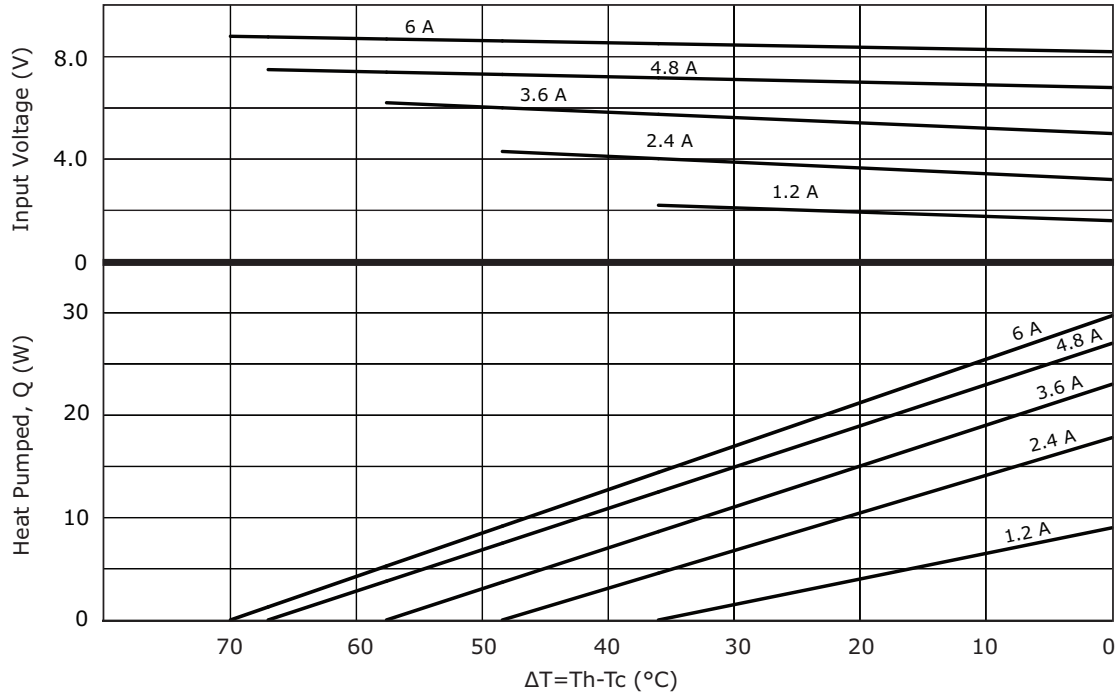
CP60131H PERFORMANCE (Th=27°C)



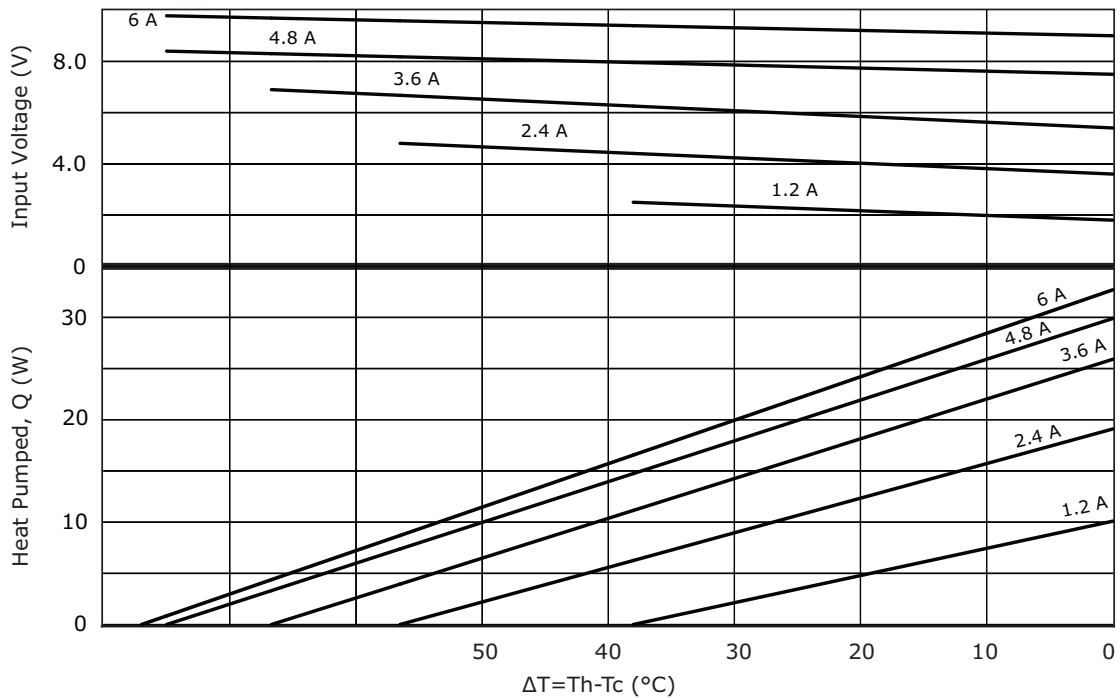
CP60131H PERFORMANCE (Th=50°C)



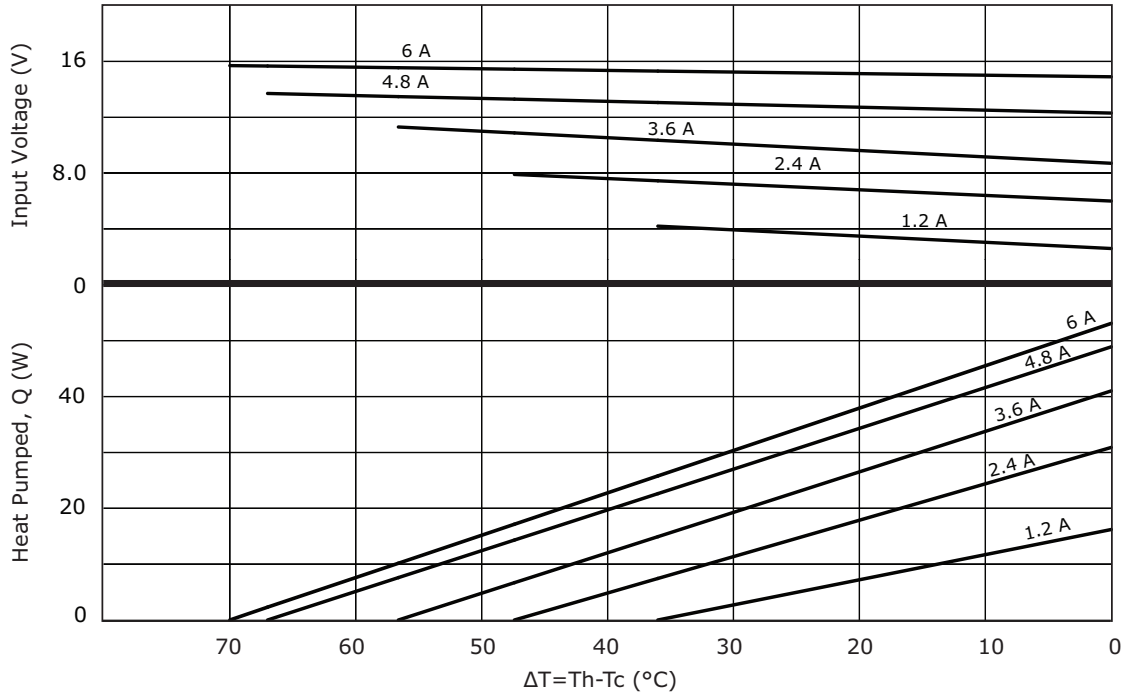
CP60231H PERFORMANCE (Th=27°C)



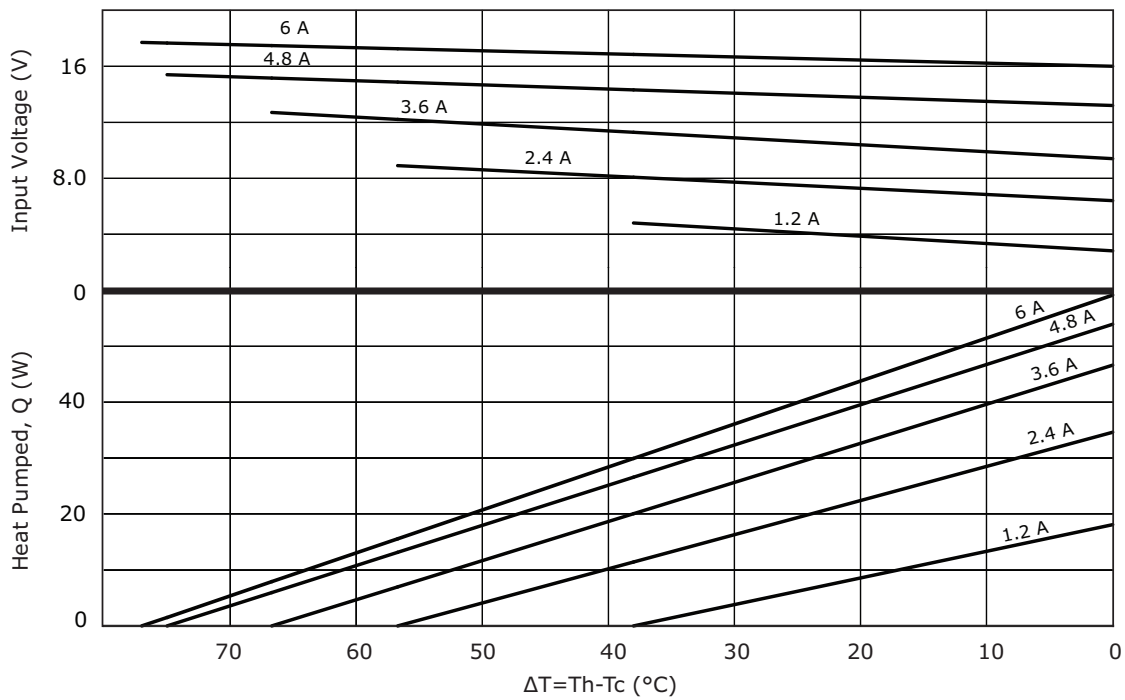
CP60231H PERFORMANCE (Th=50°C)



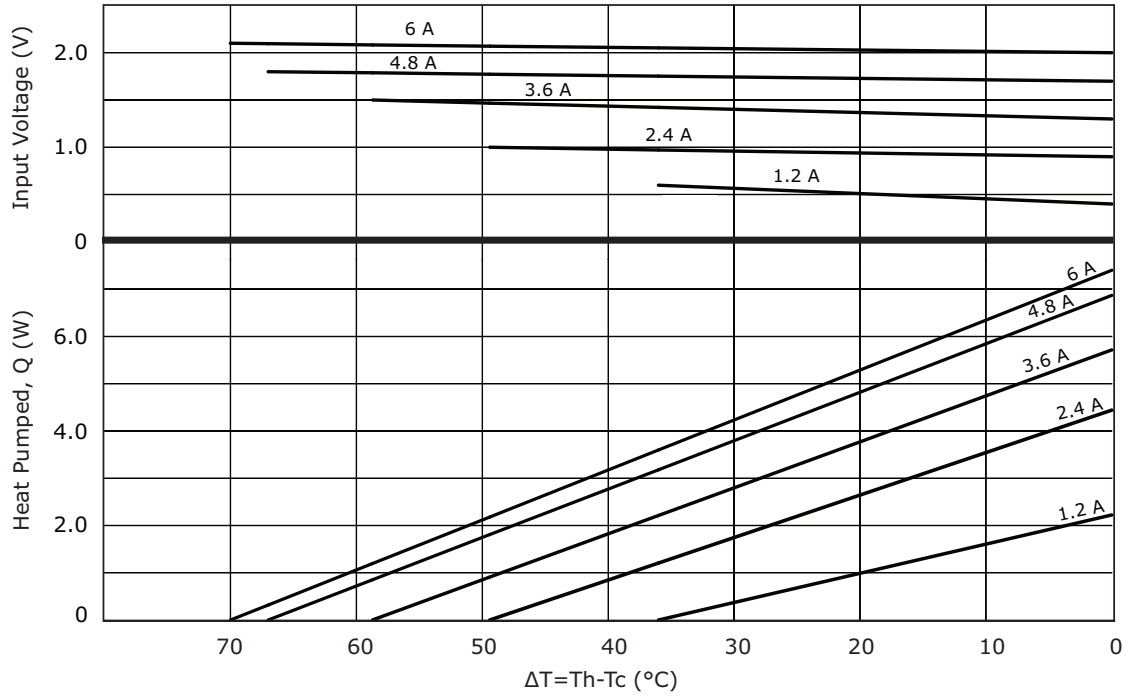
CP603315H PERFORMANCE (Th=27°C)



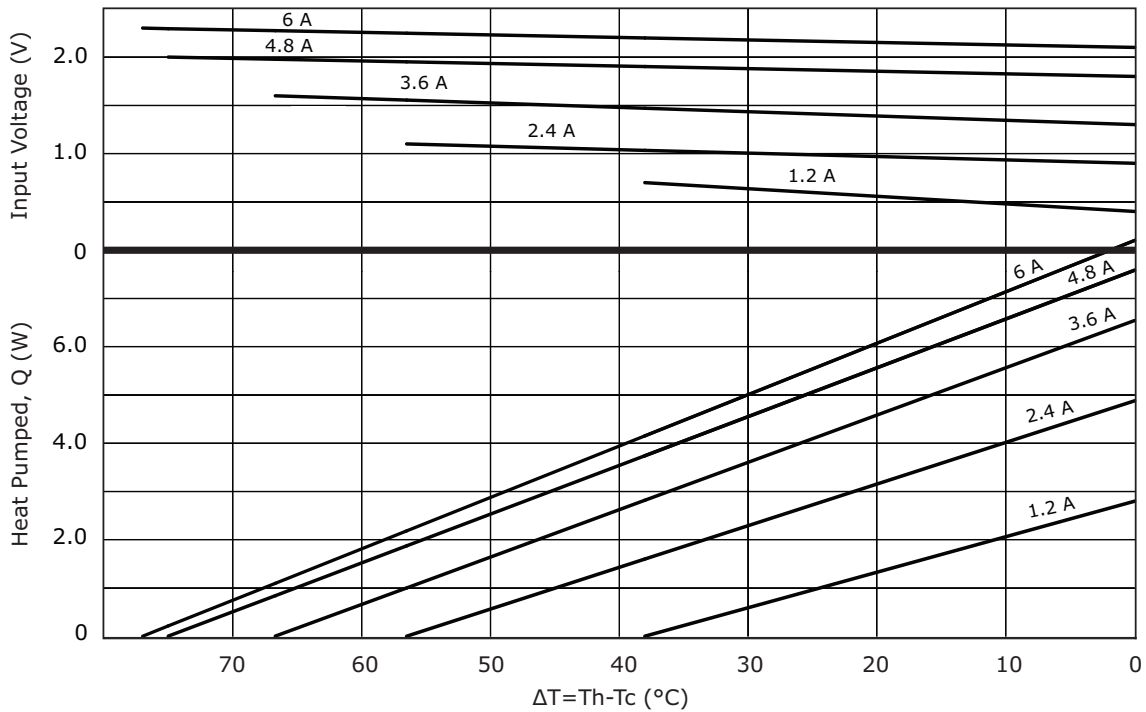
CP603315H PERFORMANCE (Th=50°C)



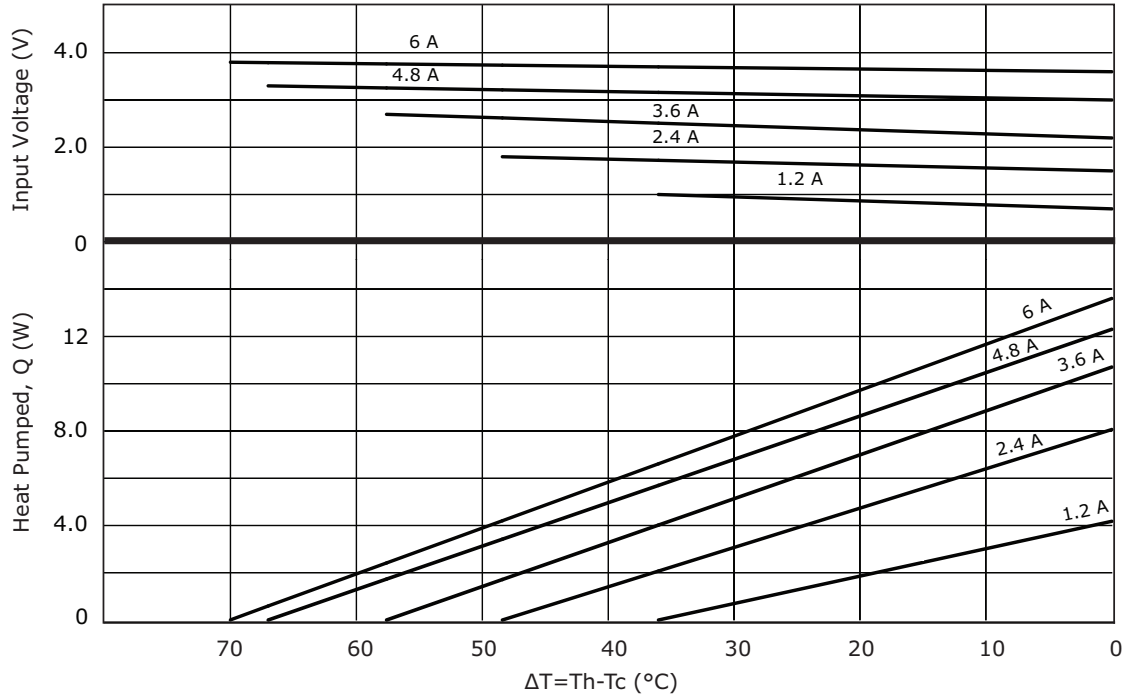
CP60139H PERFORMANCE (Th=27°C)



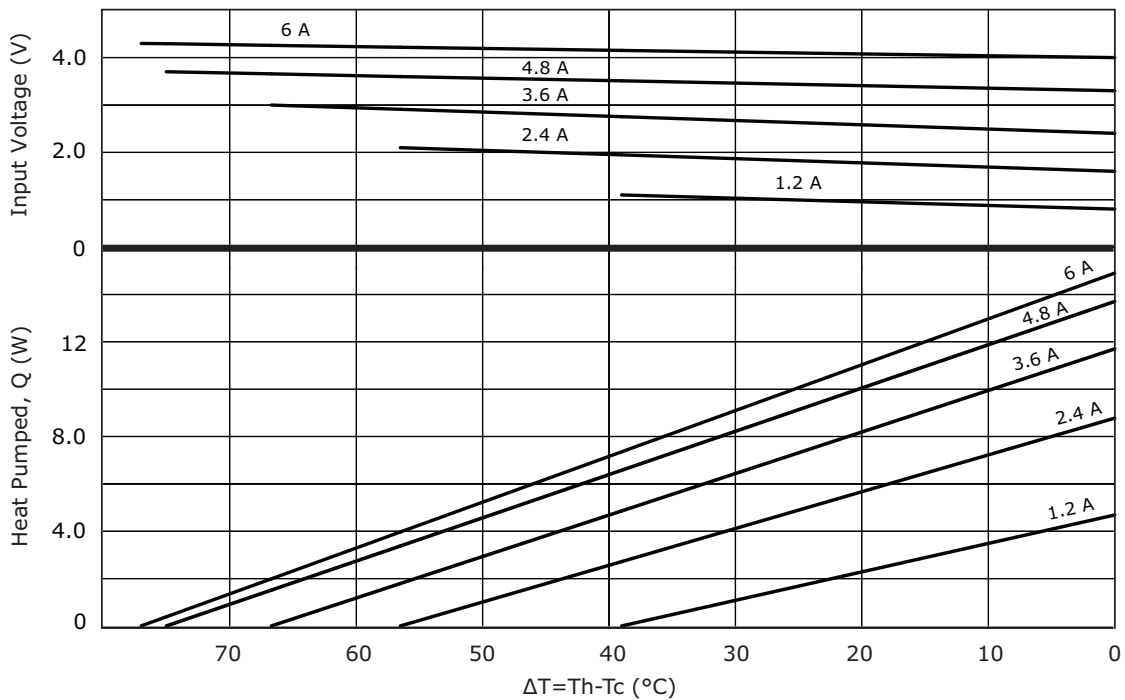
CP60139H PERFORMANCE (Th=50°C)



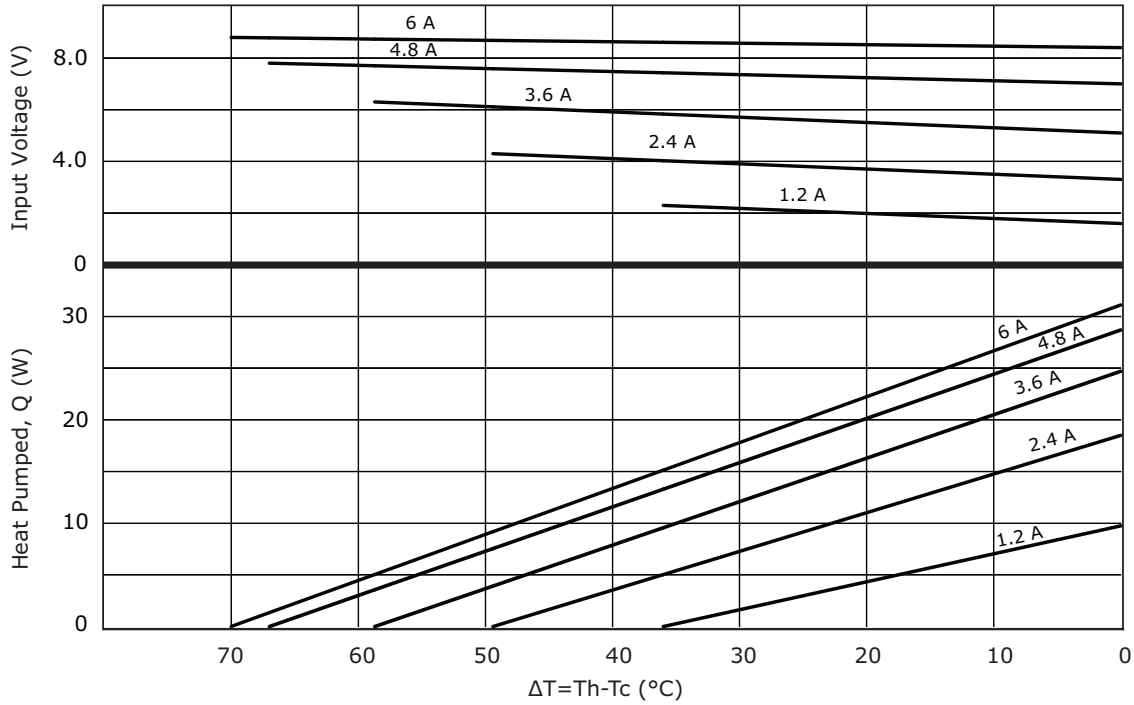
CP60239H PERFORMANCE (Th=27°C)



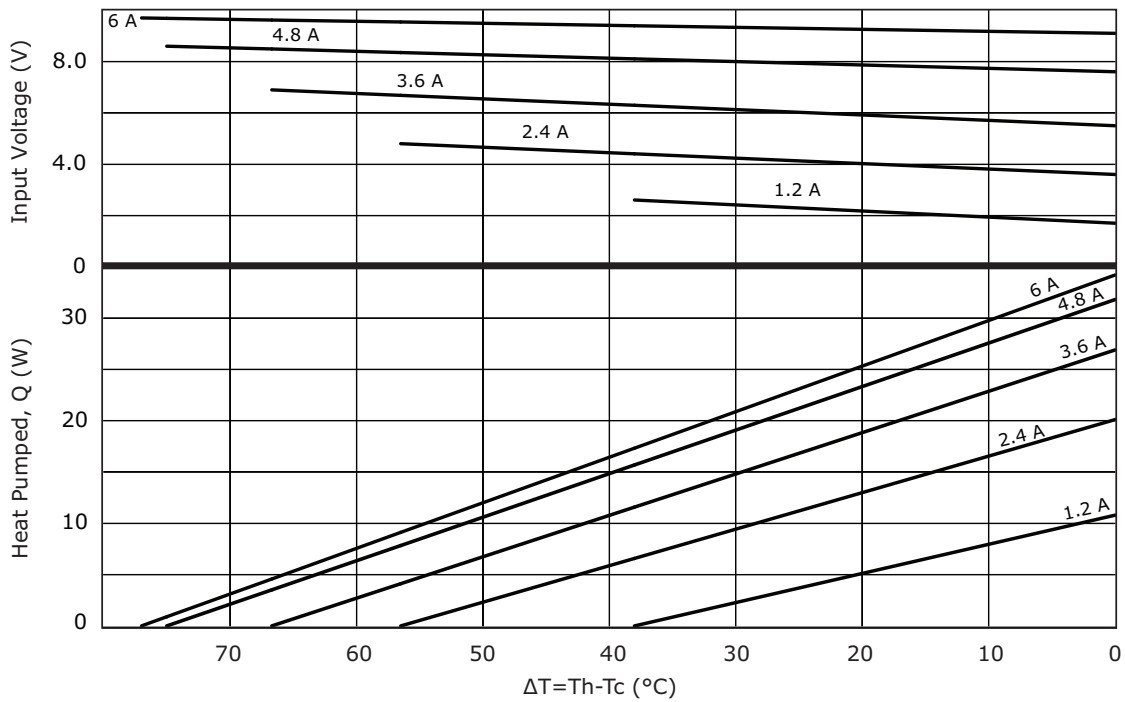
CP60239H PERFORMANCE (Th=50°C)



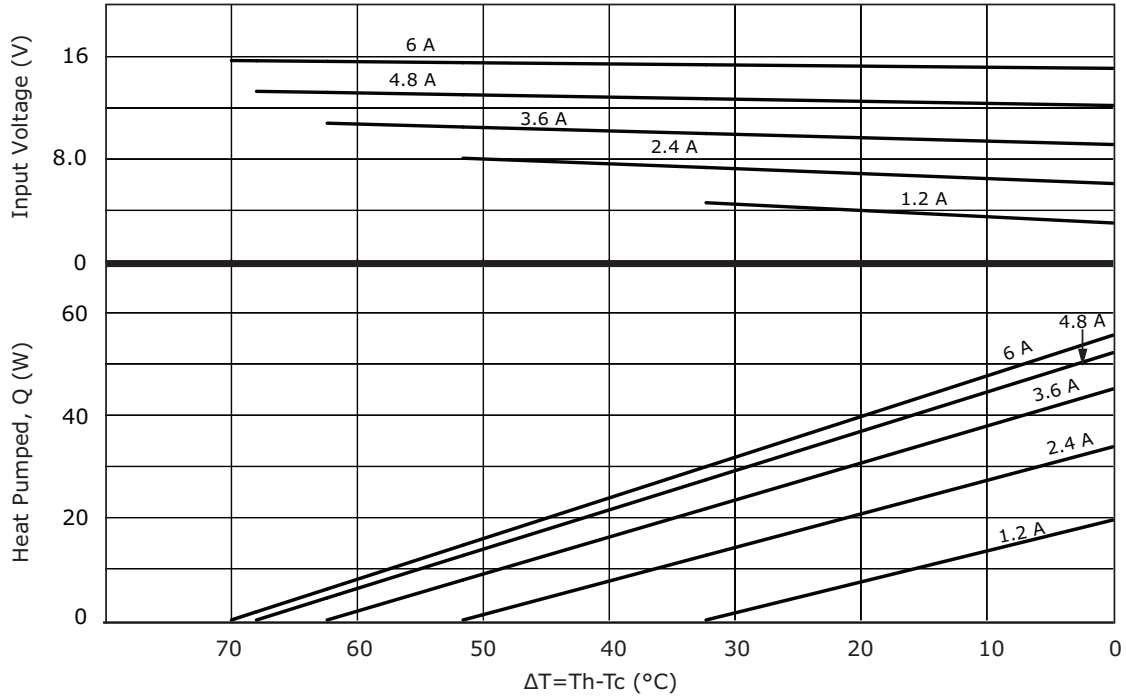
CP603395H PERFORMANCE (Th=27°C)



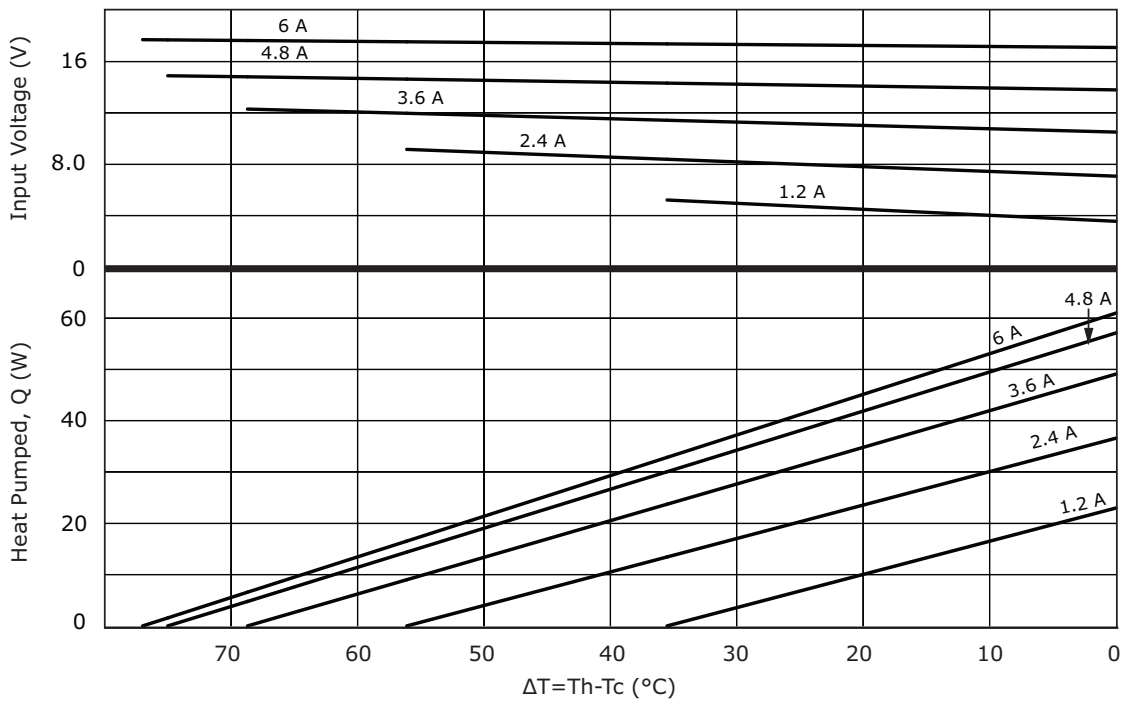
CP603395H PERFORMANCE (Th=50°C)



CP604395H PERFORMANCE (Th=27°C)



CP604395H PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	09/08/2016
1.01	updated datasheet	09/25/2017

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



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