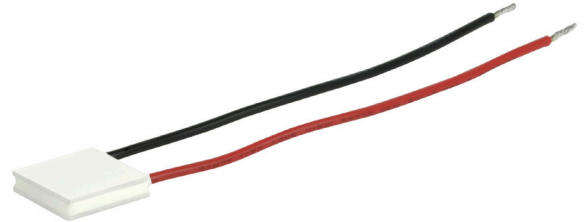


SERIES: CP85H | **DESCRIPTION:** PELTIER MODULE**FEATURES**

- 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**

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)
CP85134H	2.1	8.5	0.2	10.3	11.3	70	77
CP85153034H	4.2	8.5	0.4 ⁷	21	23	70	77
CP85234H	3.8	8.5	0.35	18.8	20.8	70	77
CP852040345H ⁶	7.6	8.5	0.75	38.2	42	70	77
CP85301534H	4.2	8.5	0.4 ⁷	21	23	70	77
CP853345H ⁶	8.8	8.5	0.85	43.1	48	70	77
CP8530345 ⁶	11.8	8.5	1.15	57.7	63.4	70	77
CP854020345H ⁶	7.6	8.5	0.75	38.2	42	70	77
CP854345H ⁶	15.7	8.5	1.5	77.1	85	70	77

Notes:

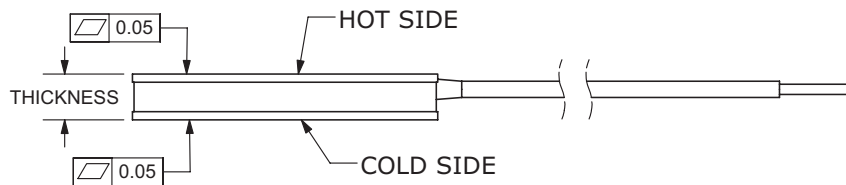
1. Maximum voltage at ΔT max and T_h=27°C
2. Maximum current to achieve ΔT max
3. Measured by AC 4-terminal method at 25°C
4. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and $\Delta T=0^\circ\text{C}$
5. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)
6. Designed with arcTEC™ structure.
7. Internal resistance tolerance is $\pm 12.5\%$

SPECIFICATIONS

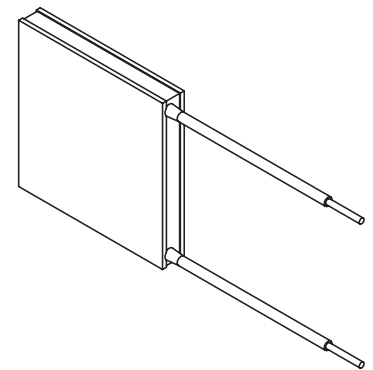
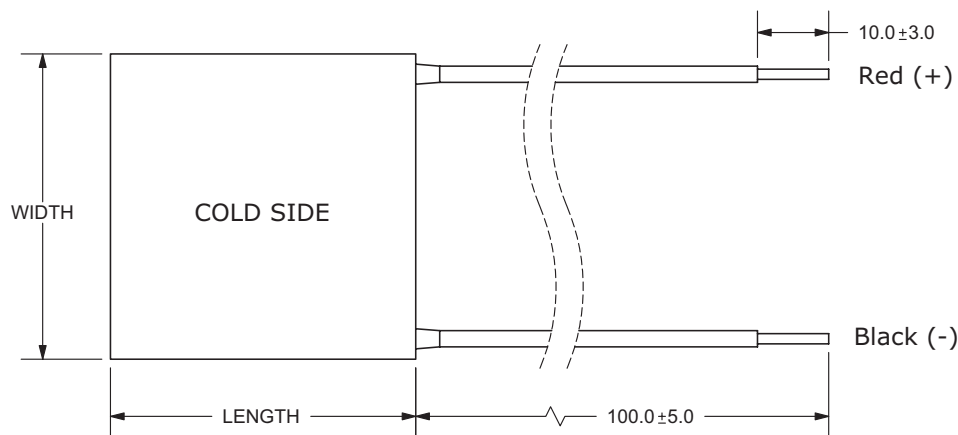
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
RoHS	yes				

MECHANICAL DRAWING

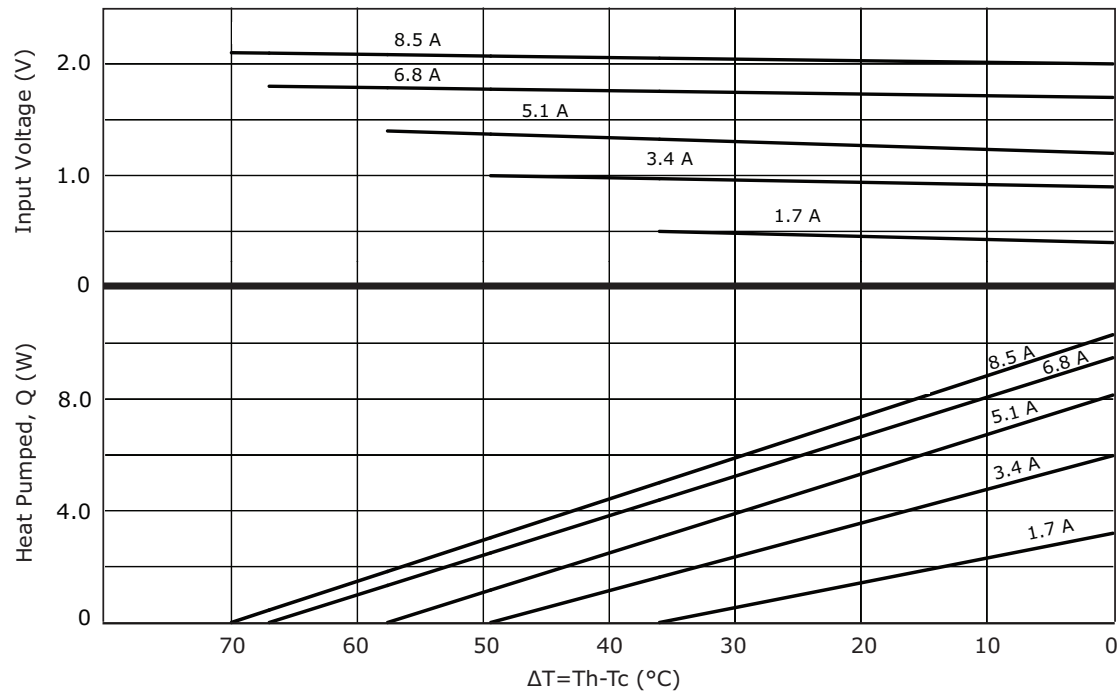
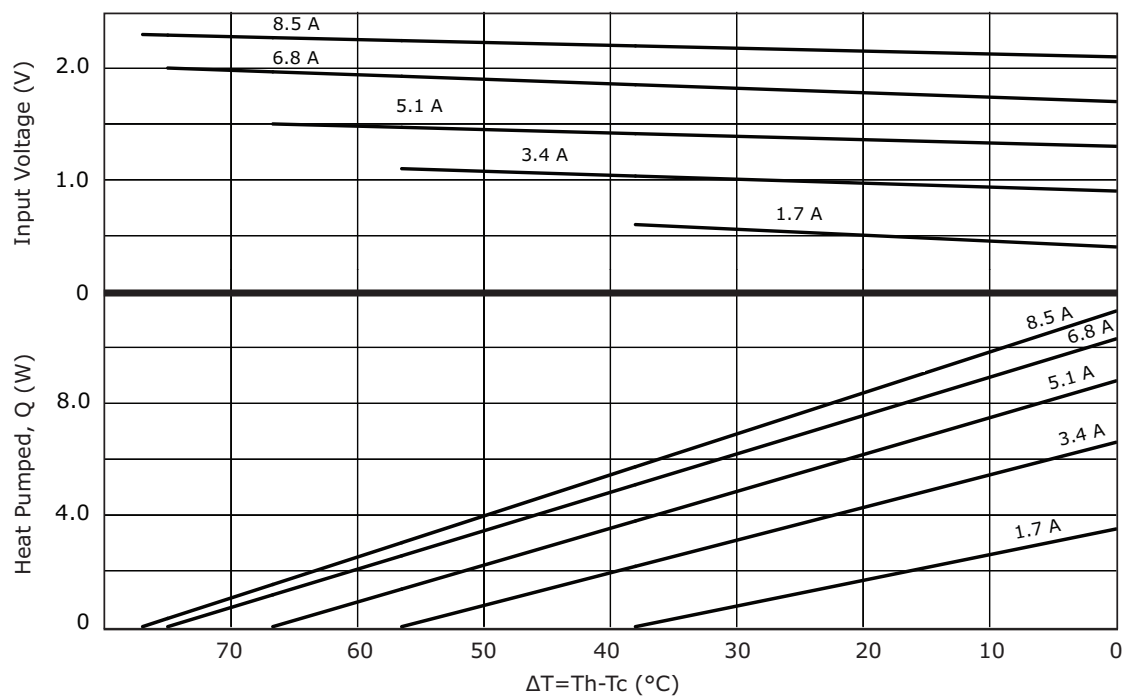
units: mm

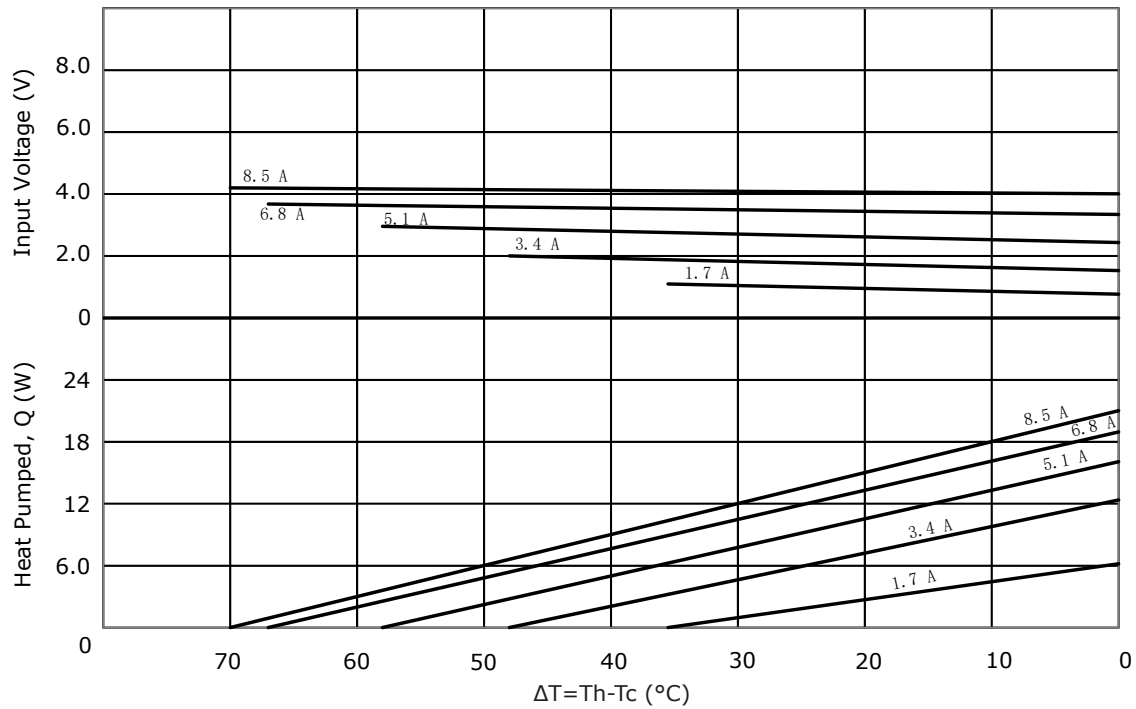
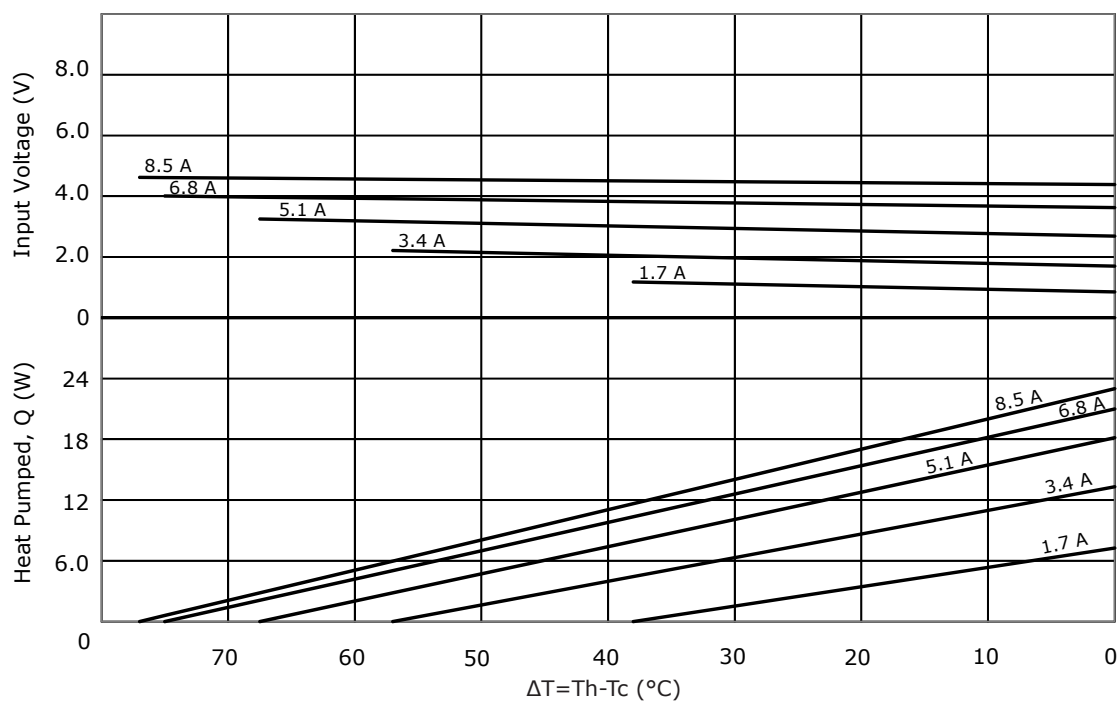


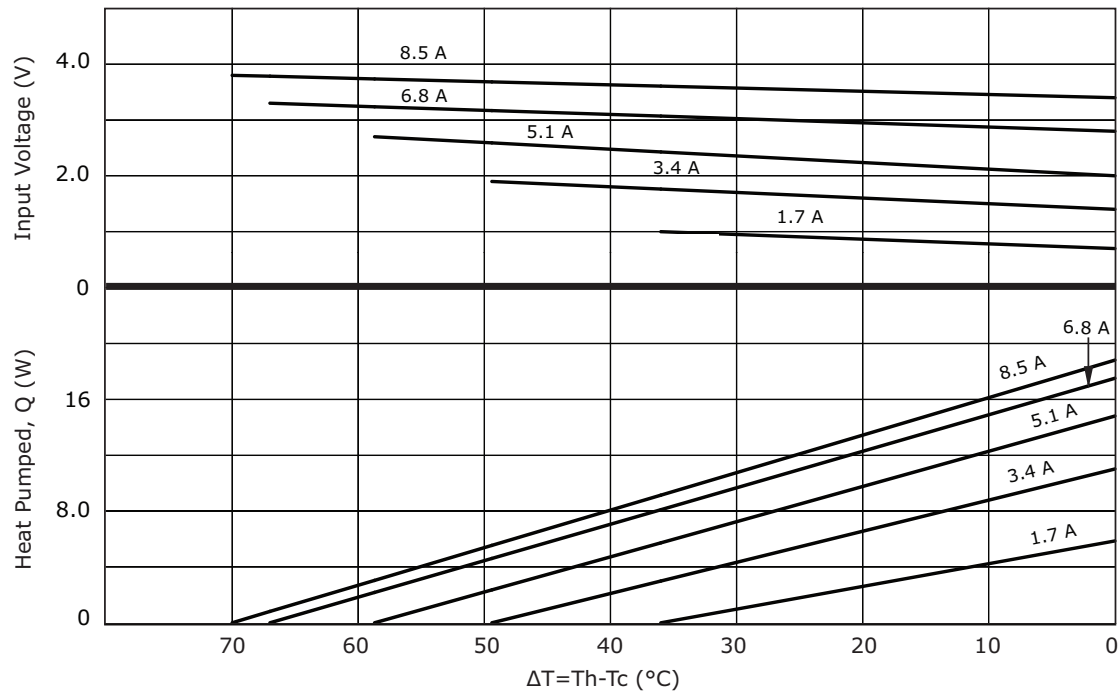
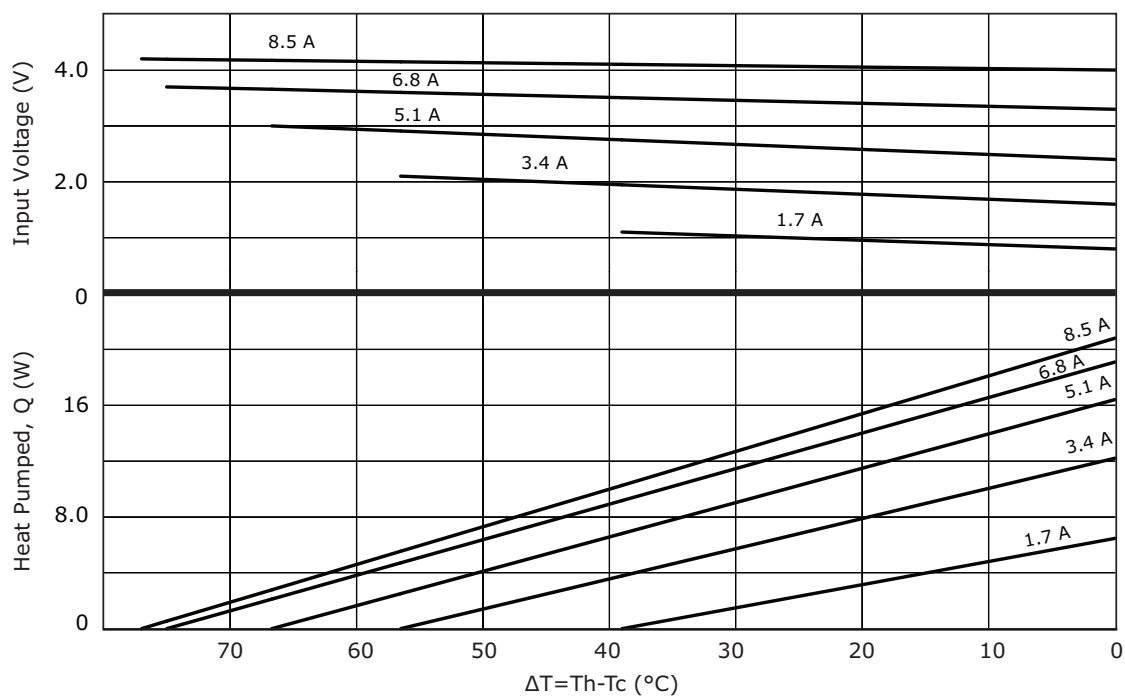
	MATERIAL	PLATING
ceramic plate	96% Al_2O_3	
wire leads	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

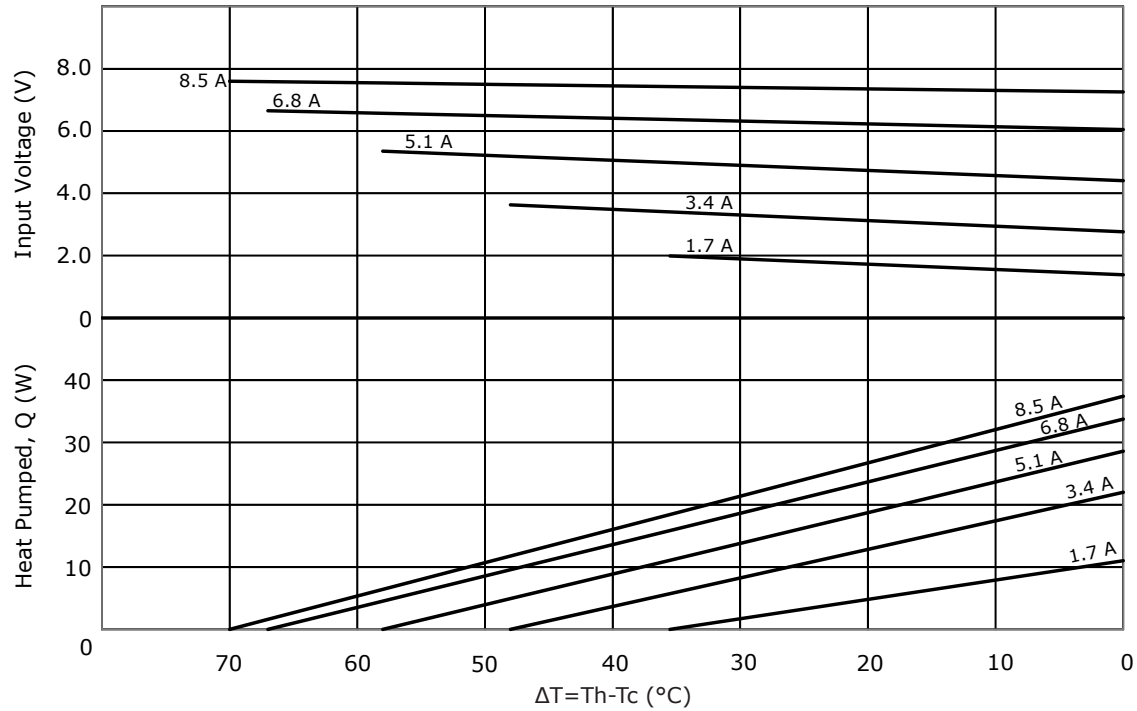
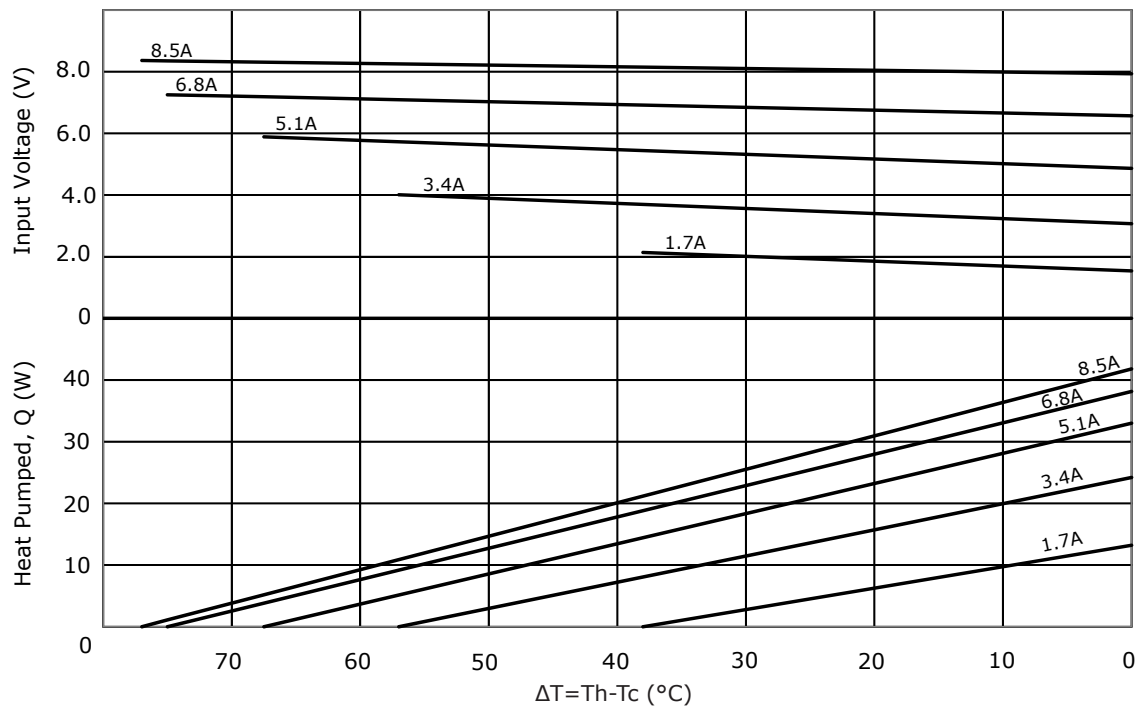


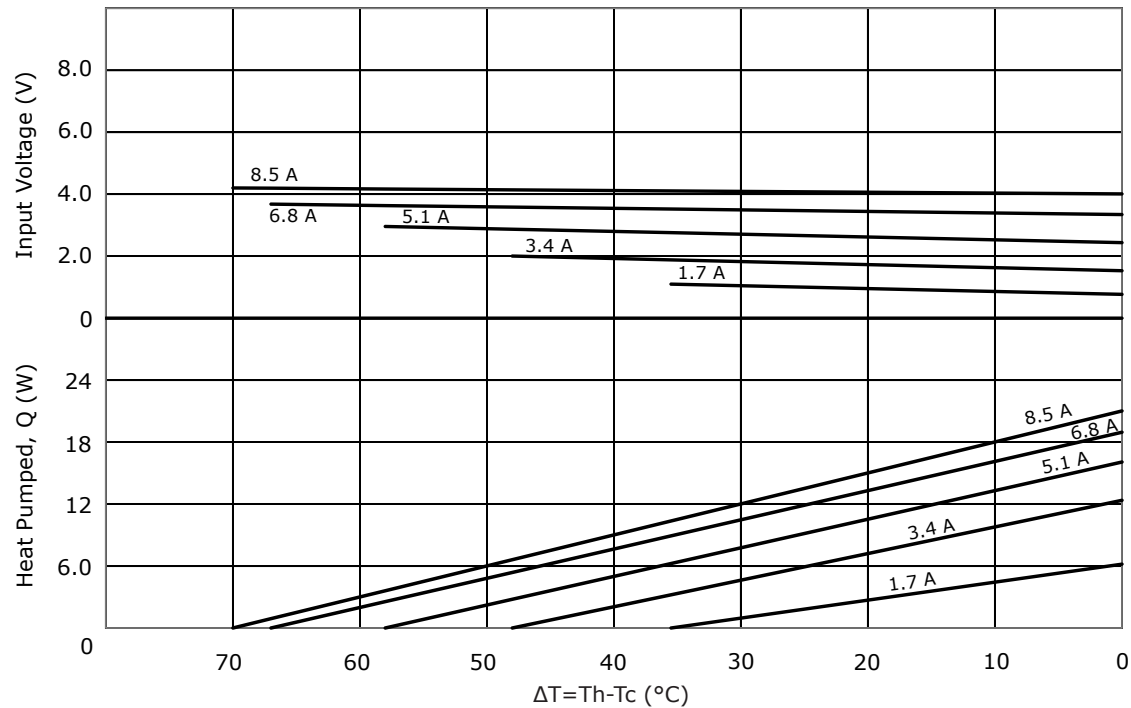
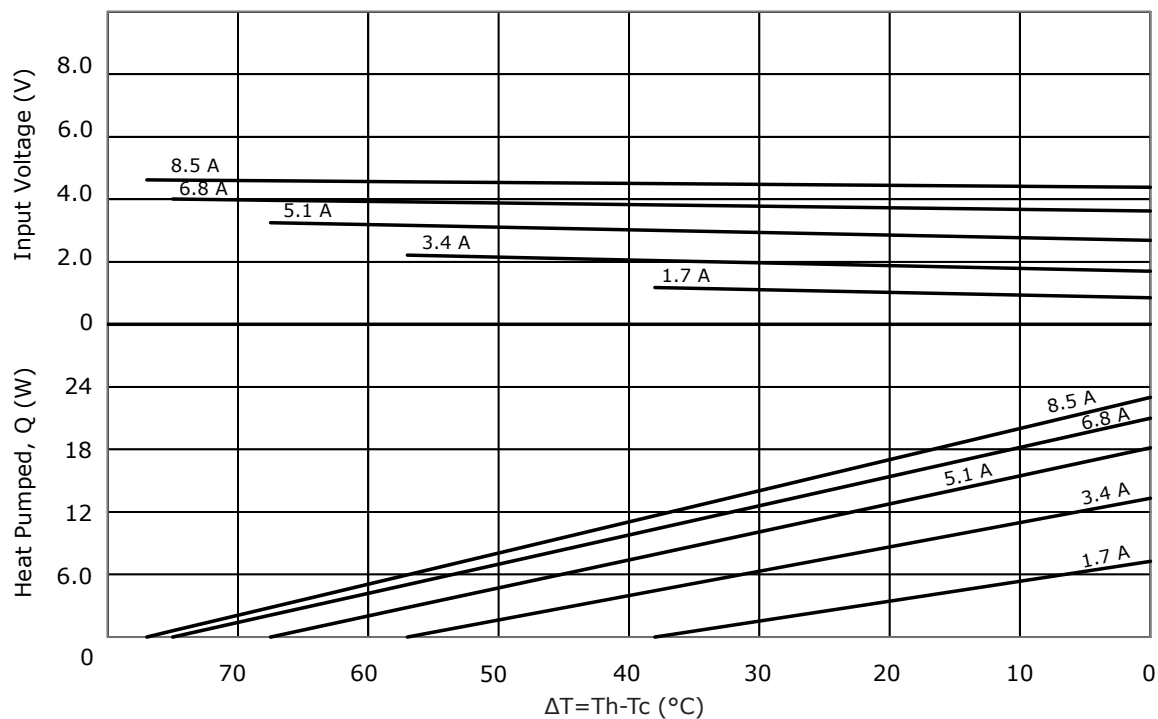
MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP85134H	15 ± 0.3	15 ± 0.3	3.4 ± 0.025
CP85153034H	15 ± 0.3	30 ± 0.3	3.4 ± 0.025
CP85234H	20 ± 0.3	20 ± 0.3	3.4 ± 0.025
CP852040345H	20 ± 0.3	40 ± 0.3	3.45 ± 0.025
CP85301534H	30 ± 0.3	15 ± 0.3	3.4 ± 0.025
CP853345H	30 ± 0.3	30 ± 0.3	3.45 ± 0.025
CP8530345	30 ± 0.3	30 ± 0.3	3.45 ± 0.025
CP854020345H	40 ± 0.3	20 ± 0.3	3.45 ± 0.025
CP854345H	40 ± 0.3	40 ± 0.3	3.45 ± 0.025

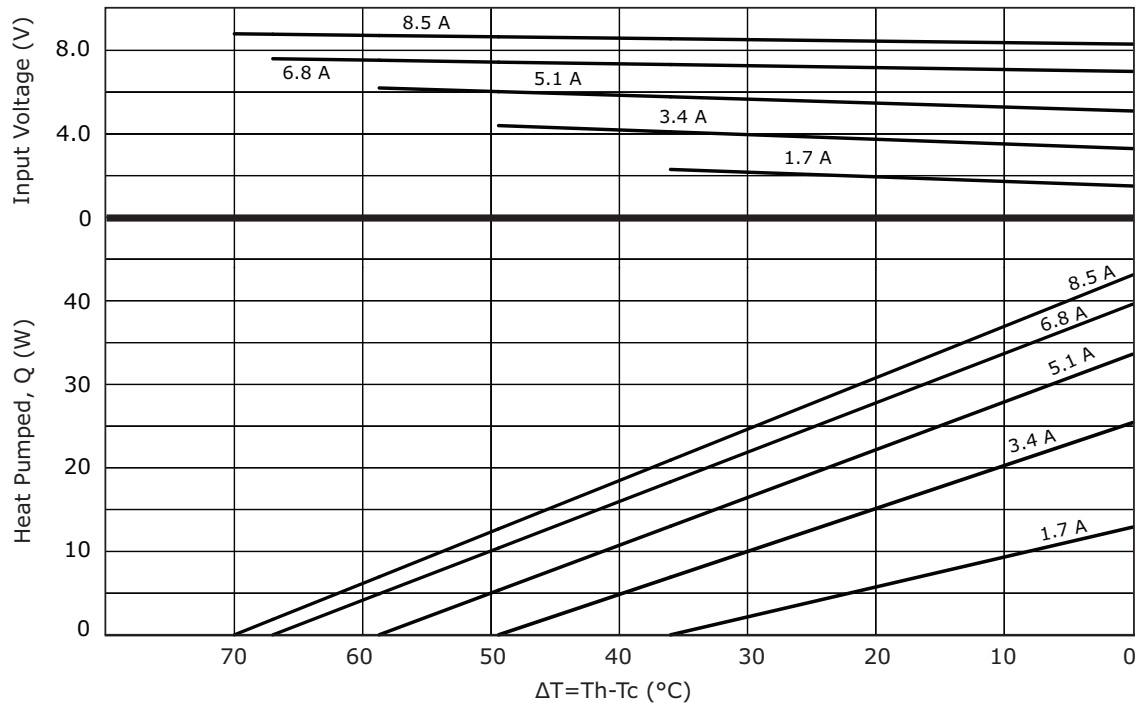
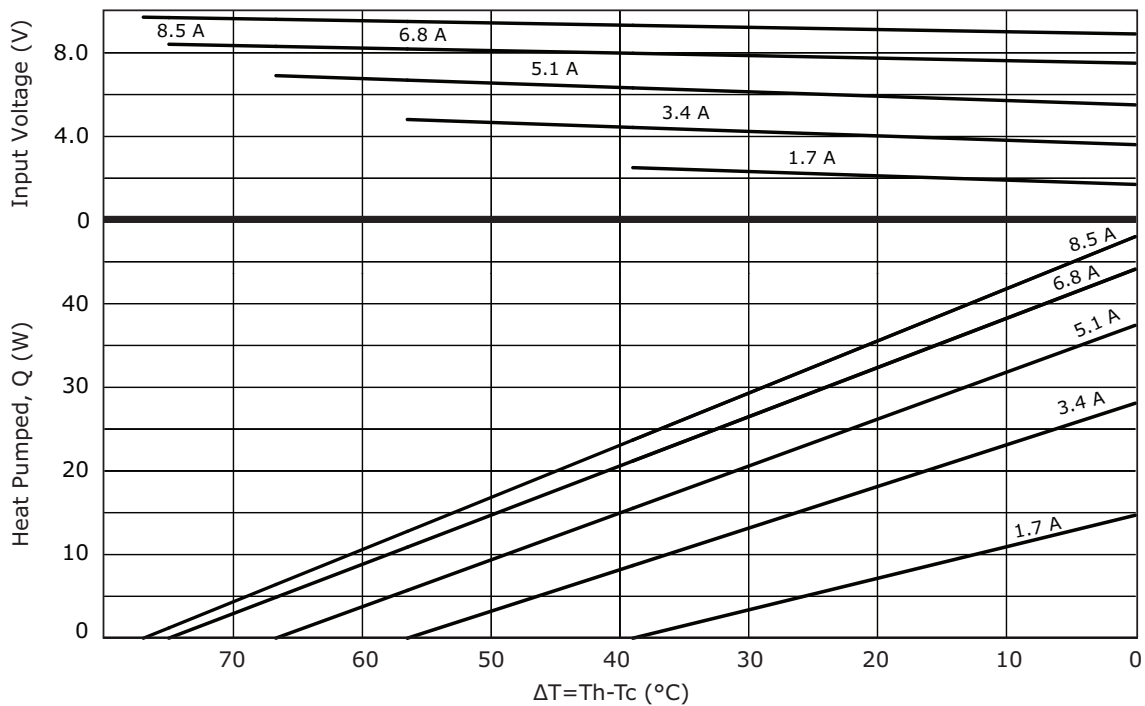
CP85134H PERFORMANCE (Th=27°C)**CP85134H PERFORMANCE (Th=50°C)**

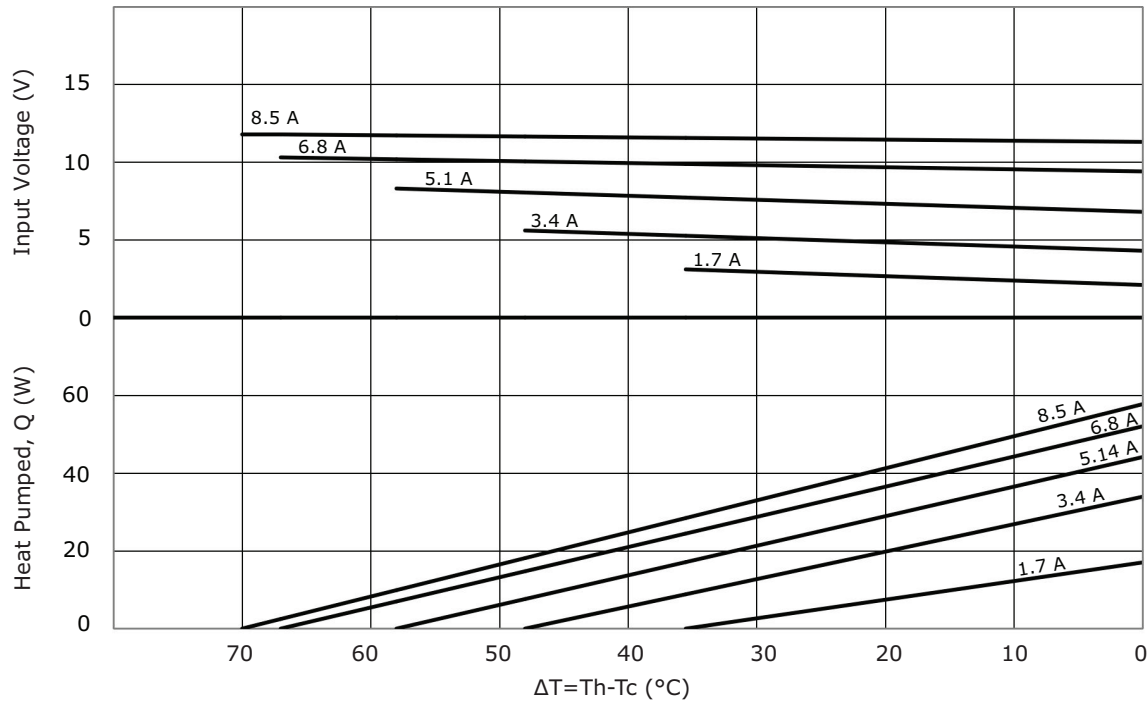
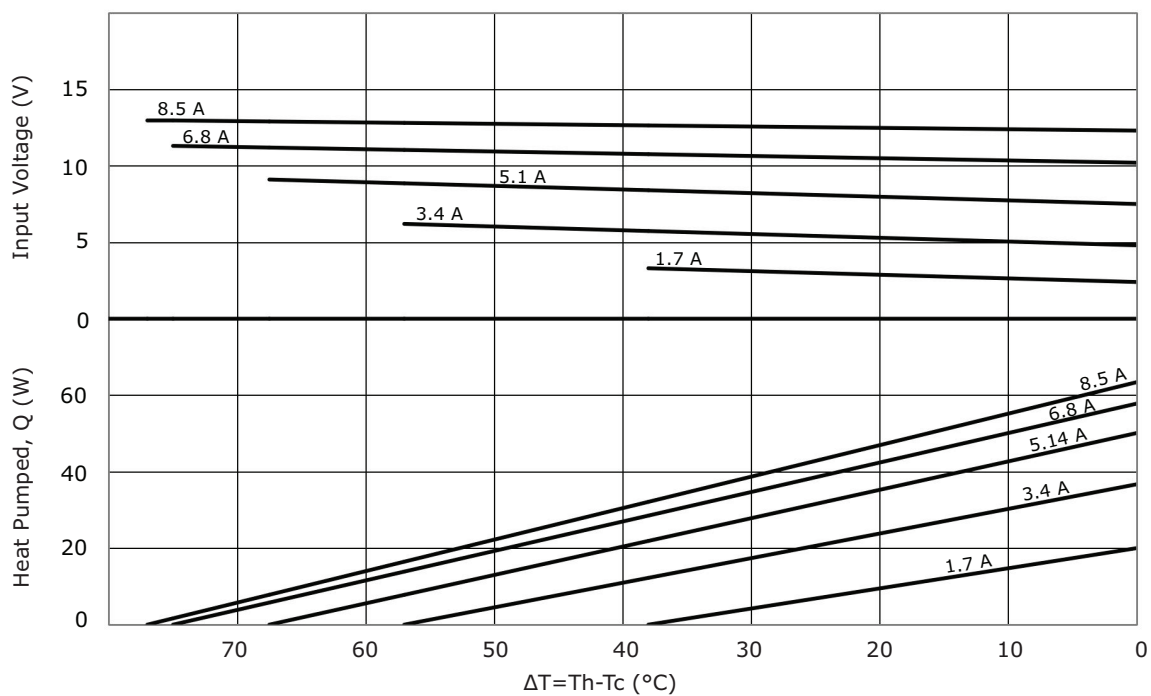
CP85153034H PERFORMANCE (Th=27°C)**CP85153034H PERFORMANCE (Th=50°C)**

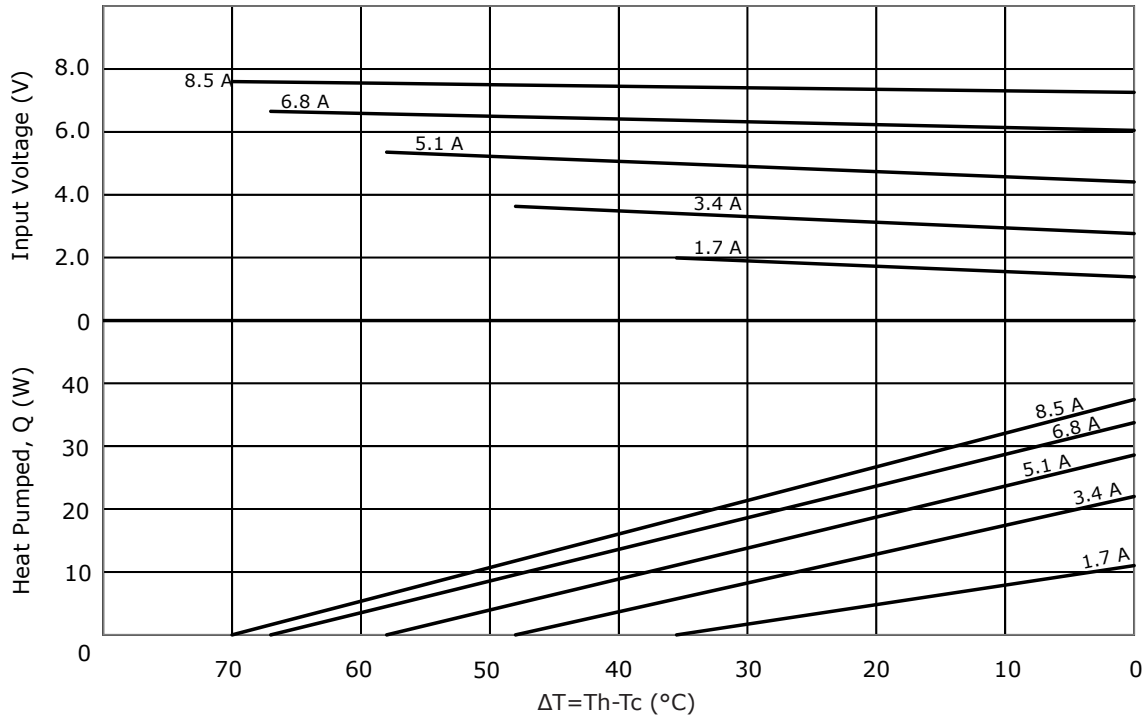
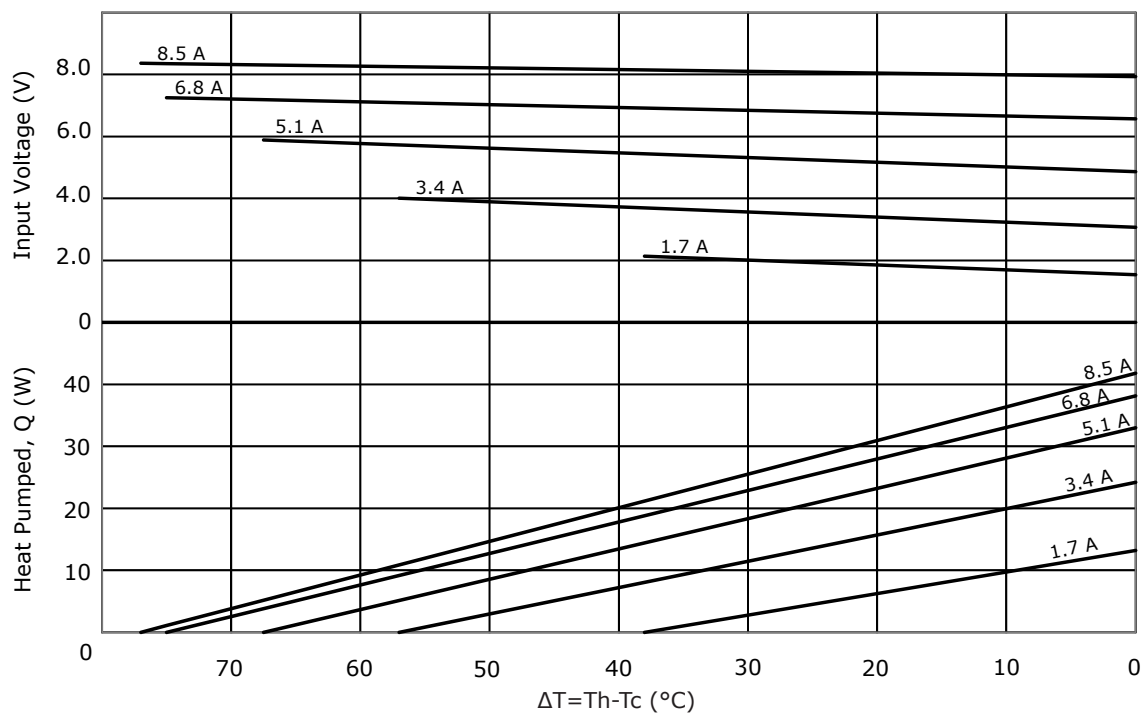
CP85234H PERFORMANCE (Th=27°C)**CP85234H PERFORMANCE (Th=50°C)**

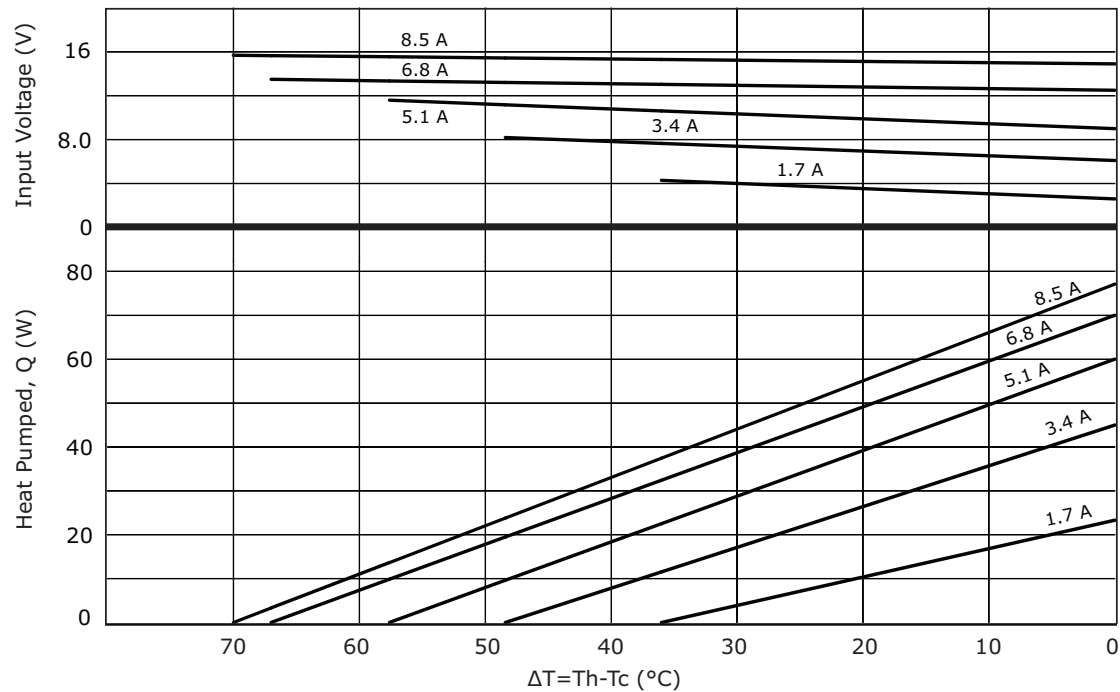
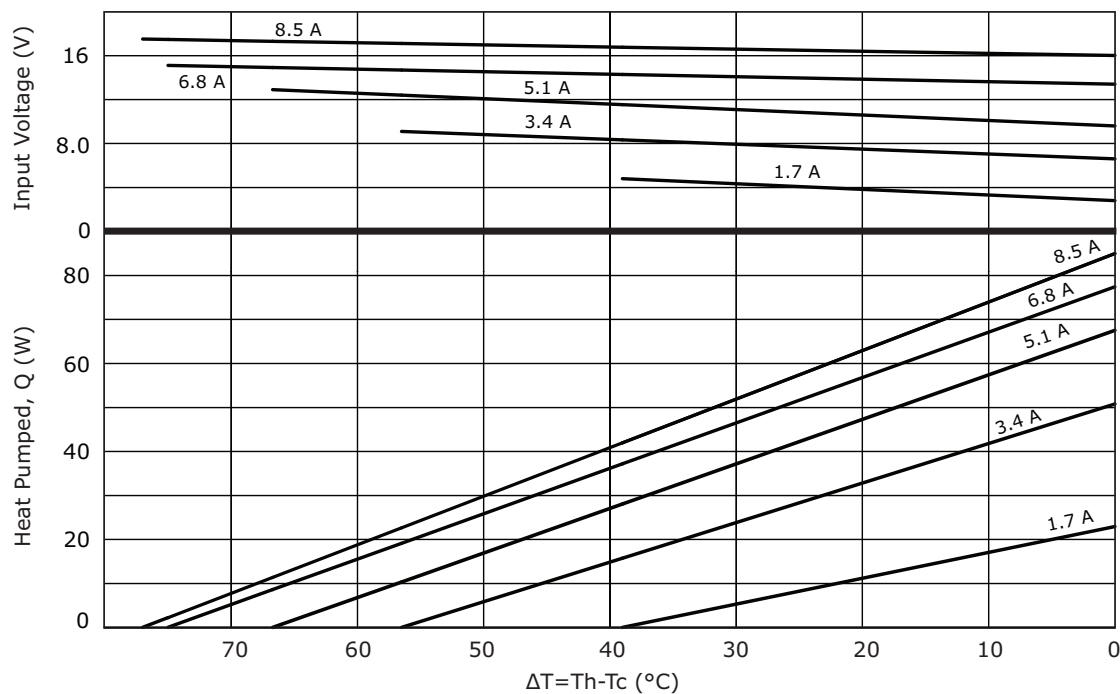
CP852040345H PERFORMANCE (Th=27°C)**CP852040345H PERFORMANCE (Th=50°C)**

CP85301534H PERFORMANCE (Th=27°C)**CP85301534H PERFORMANCE (Th=50°C)**

CP853345H PERFORMANCE (Th=27°C)**CP853345H PERFORMANCE (Th=50°C)**

CP8530345 PERFORMANCE (Th=27°C)**CP8530345 PERFORMANCE (Th=50°C)**

CP854020345H PERFORMANCE (Th=27°C)**CP854020345H PERFORMANCE (Th=50°C)**

CP854345H PERFORMANCE (Th=27°C)**CP854345H PERFORMANCE (Th=50°C)**

REVISION HISTORY

rev.	description	date
1.0	initial release	09/08/2016
1.01	updated datasheet	09/25/2017
1.02	added new models	05/21/2018
1.03	added model CP8530345, brand update	10/18/2019

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

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