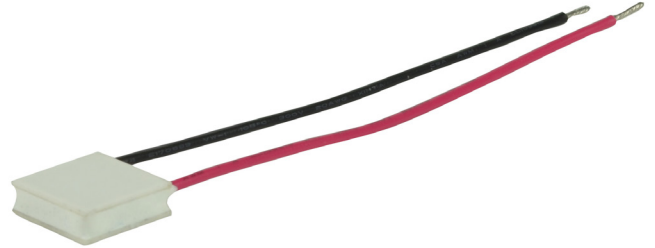


SERIES: CP35 | **DESCRIPTION:** PELTIER MODULE

FEATURES

- arcTEC™ structure on select models
- solid state device
- precise temperature control
- quiet operation

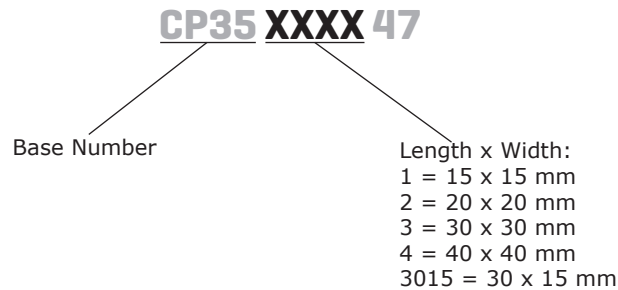


MODEL

MODEL	input voltage ¹ max (Vdc)	input current ² max (A)	output Qmax ³		output ΔTmax ⁴	
			T _n =27°C (W)	T _n =50°C (W)	T _n =27°C (°C)	T _n =50°C (°C)
CP35147	2.1	3.5	3.9	4.3	68	75
CP35247	3.8	3.5	7.0	7.7	68	75
CP35301547	4.2	3.5	7.9	8.7	68	75
CP35347 ⁵	8.6	3.5	16.0	17.8	70	77
CP35447 ⁵	15.4	3.5	29.0	32.0	70	77

- Notes:
1. Maximum voltage at ΔT max and T_n=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)
 5. Designed with arcTEC™ structure

PART NUMBER KEY



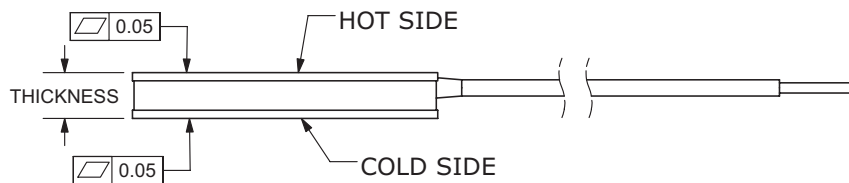
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance ¹	CP35147	0.396	0.44	0.484	Ω
	CP35247	0.72	0.8	0.88	Ω
	CP35301547	0.81	0.90	0.99	Ω
	CP35347	1.737	1.93	2.123	Ω
	CP35447	2.97	3.3	3.63	Ω
solder melting temperature	connection between thermoelectric pairs CP35347, CP35447	235			°C
	all other models	138			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	2011/65/EU				

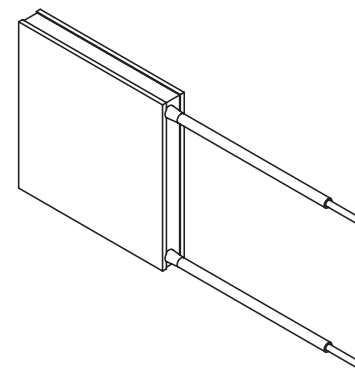
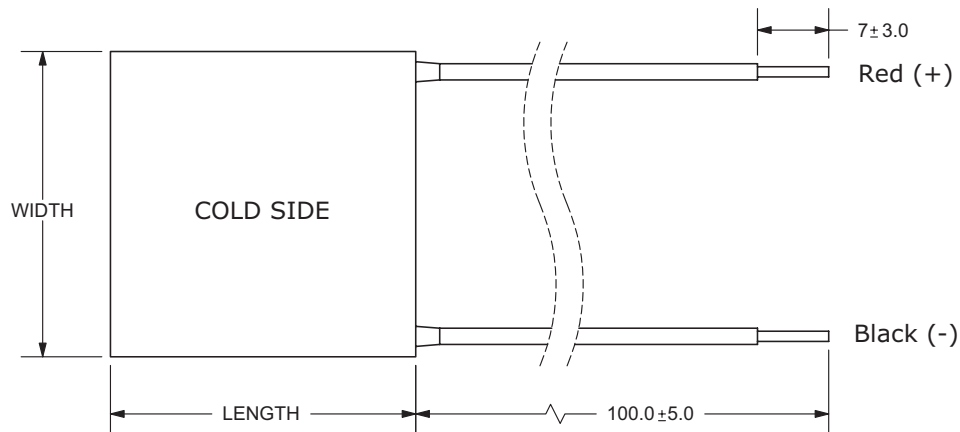
Note: 1. Measured by AC 4-terminal method at 25°C

MECHANICAL DRAWING

units: mm



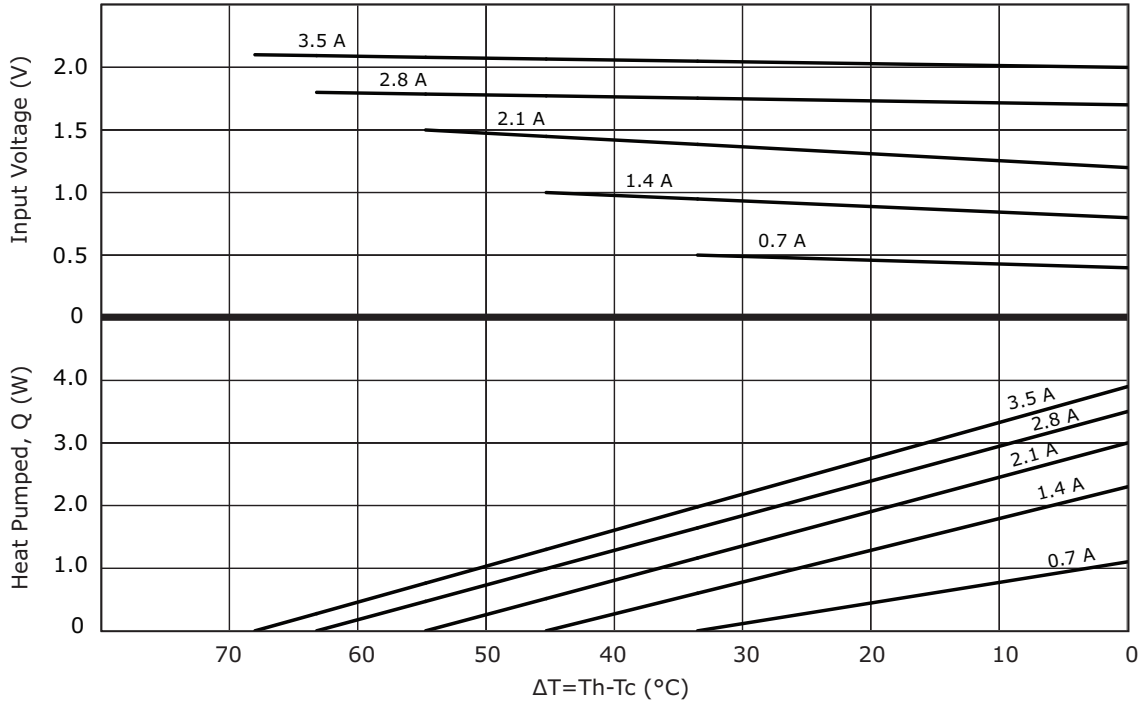
	MATERIAL	PLATING
ceramic plate	96% AL ₂ O ₃	
wire leads	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	



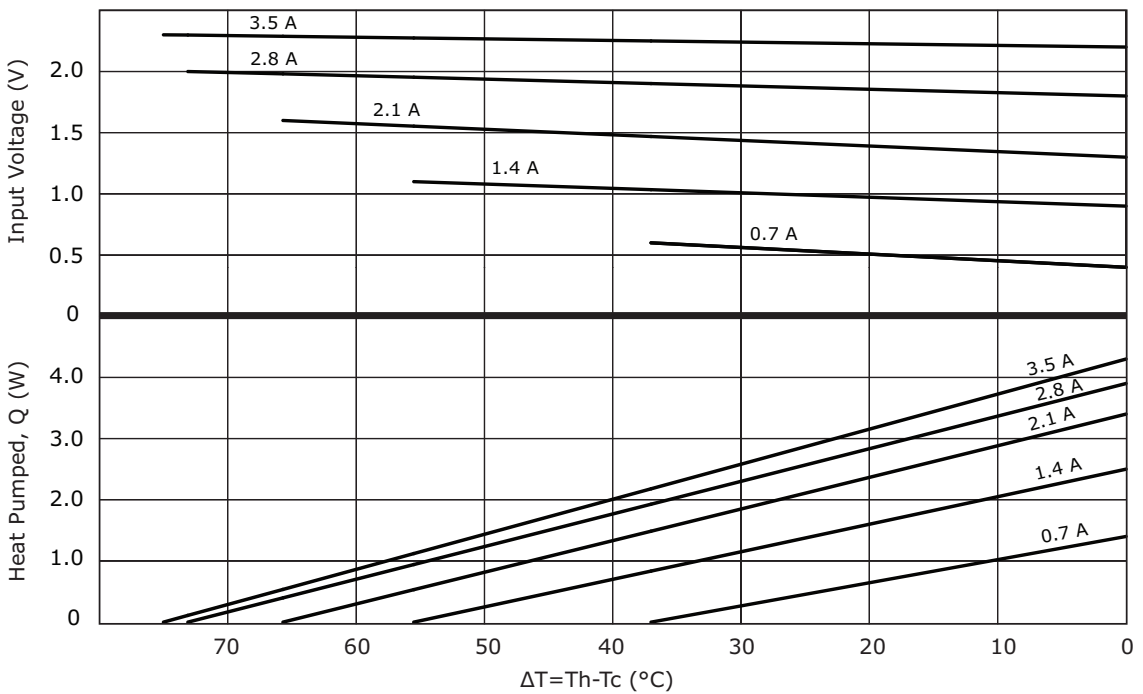
MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP35147	15 ± 0.3	15 ± 0.3	4.7 ± 0.1
CP35247	20 ± 0.3	20 ± 0.3	4.7 ± 0.1
CP35301547	30 ± 0.3	15 ± 0.3	4.7 ± 0.1
CP35347 ²	30 ± 0.3	30 ± 0.3	4.7 ± 0.1
CP35447	40 ± 0.3	40 ± 0.3	4.65 ± 0.025

Notes: 2. Wire lead strip length on model CP35347 is 10 ± 3.0 mm.

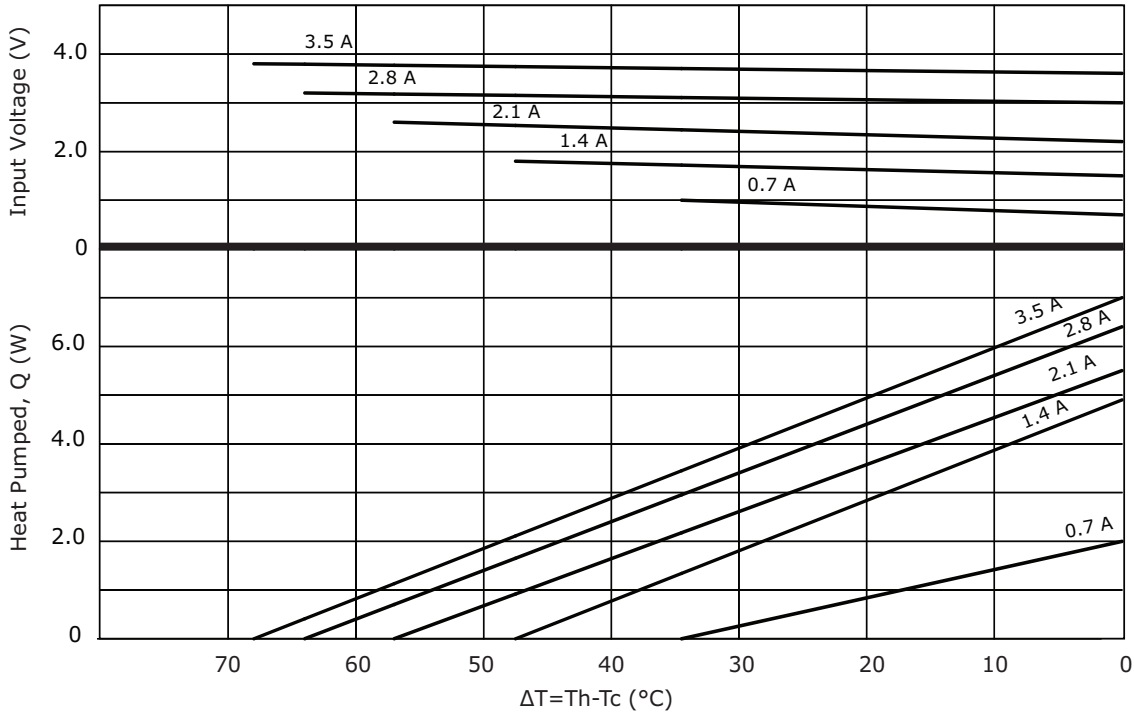
CP35147 PERFORMANCE (Th=27°C)



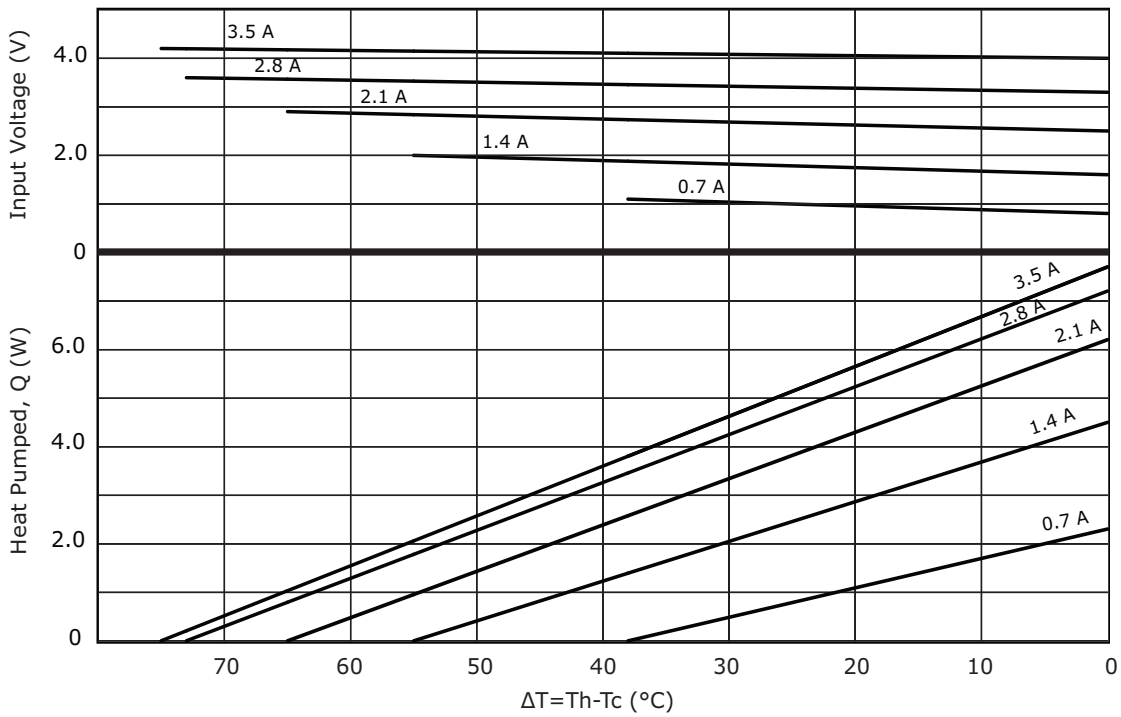
CP35147 PERFORMANCE (Th=50°C)



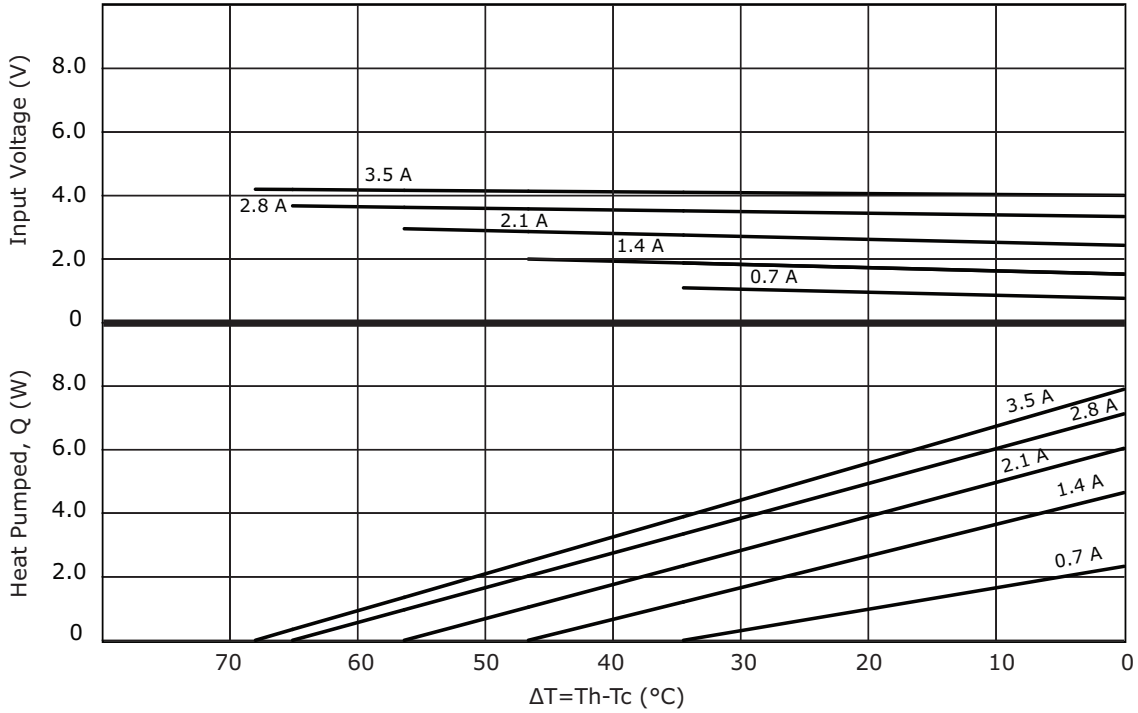
CP35247 PERFORMANCE (Th=27°C)



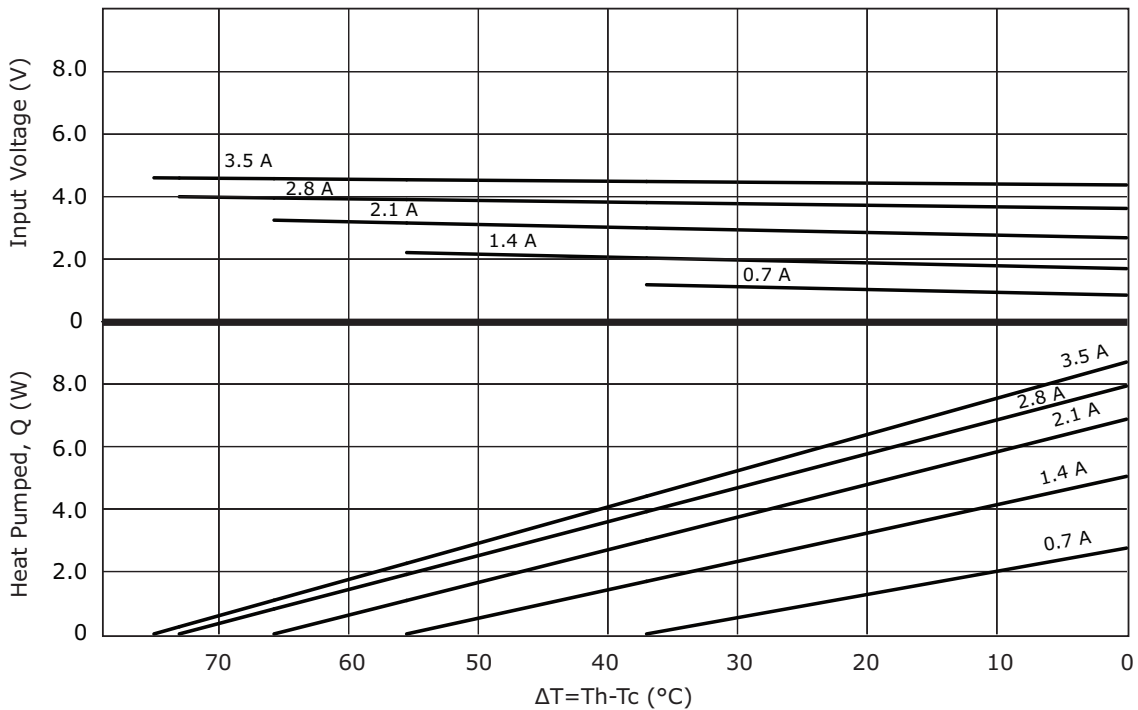
CP35247 PERFORMANCE (Th=50°C)



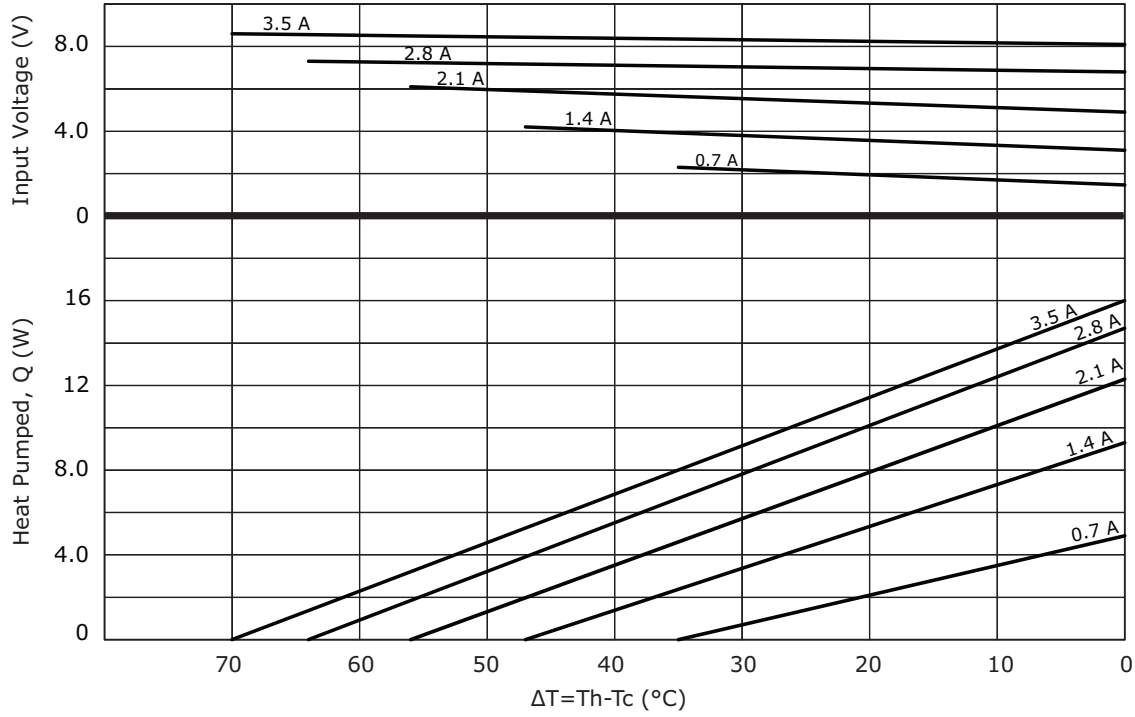
CP35301547 PERFORMANCE (Th=27°C)



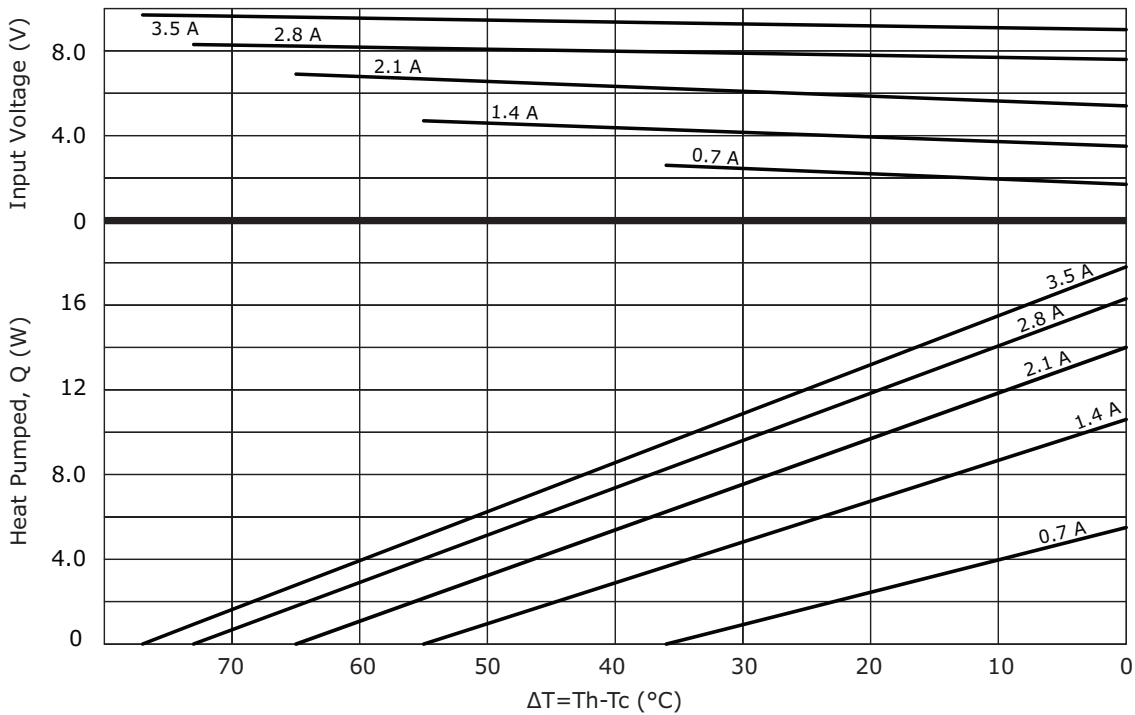
CP35301547 PERFORMANCE (Th=50°C)



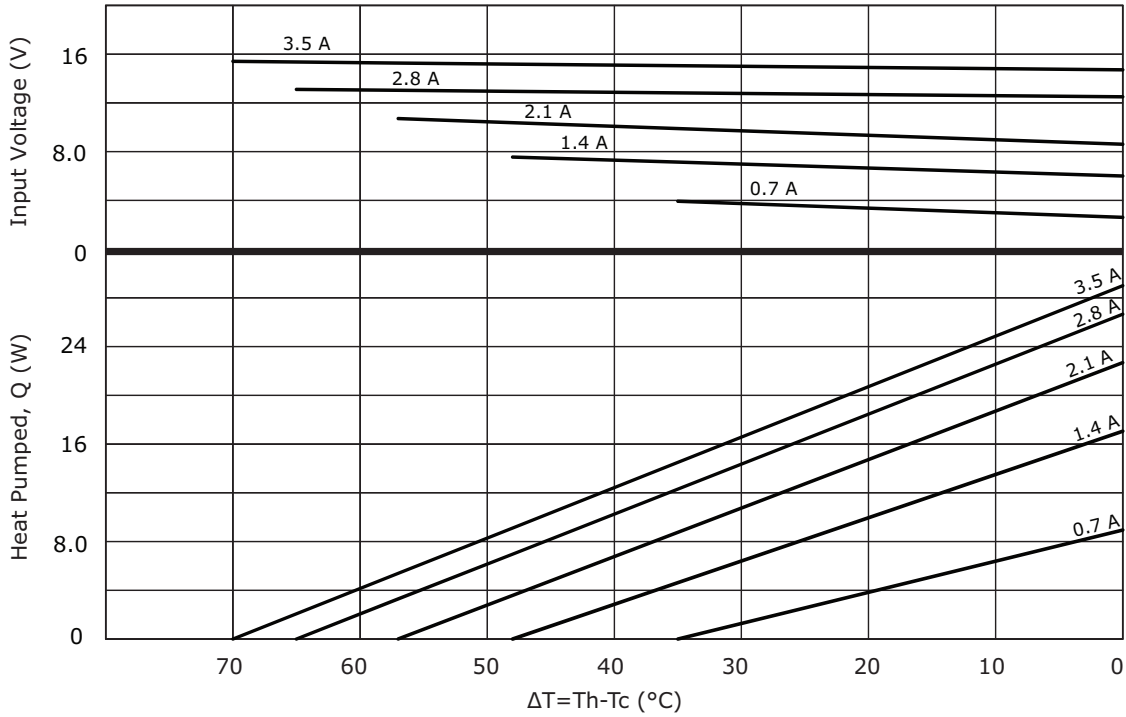
CP35347 PERFORMANCE (Th=27°C)



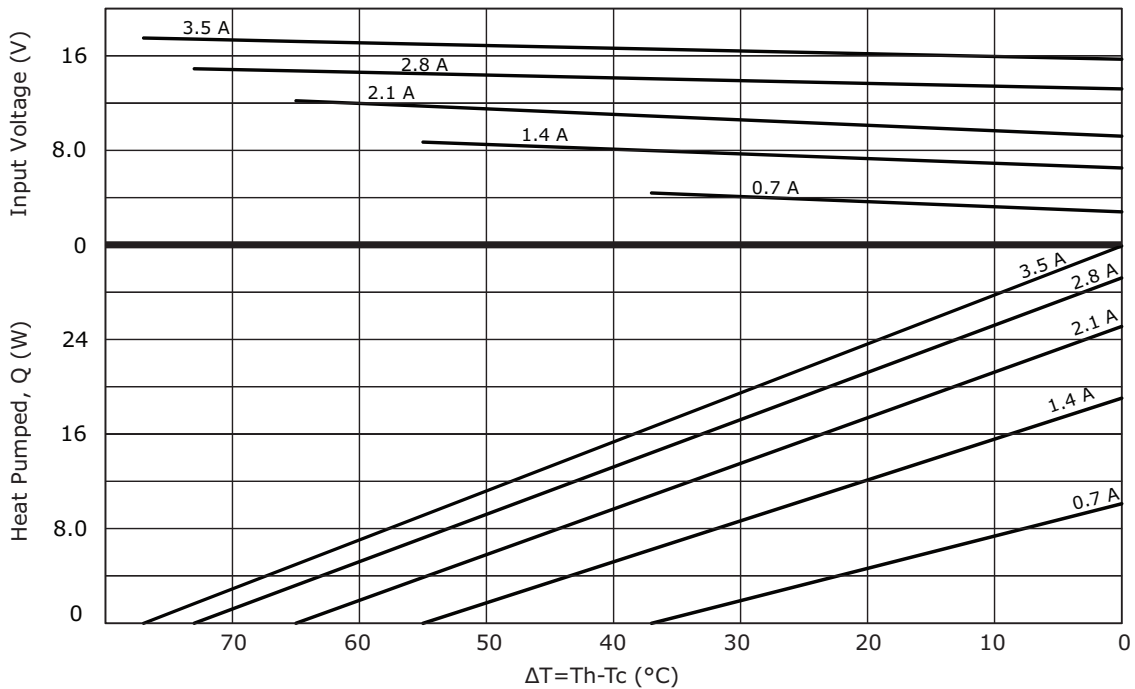
CP35347 PERFORMANCE (Th=50°C)



CP35447 PERFORMANCE (Th=27°C)



CP35447 PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	09/08/2016
1.01	changed models CP35347 & CP35447 to arcTEC™ structure	12/01/2017

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



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