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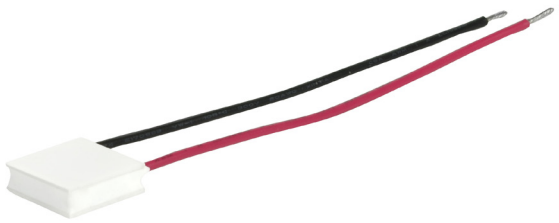
SERIES: CP35 | DESCRIPTION: PELTIER MODULE

FEATURES

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



RoHS

MODEL

MODEL	input voltage[1] max (Vdc)	input current[2] max (A)	internal resistance[3] typ (Ω±10%)	output Qmax[4] T_h=27°C (W)	output Qmax[4] T_h=50°C (W)	output ΔTmax[5] T_h=27°C (°C)	output ΔTmax[5] T_h=50°C (°C)
CP35147	2.1	3.5	0.44	3.9	4.3	68	75
CP35247	3.8	3.5	0.80	7.0	7.7	68	75
CP35301547	4.2	3.5	0.90	7.9	8.7	68	75
CP35347[6]	8.6	3.5	1.93	16.0	17.8	70	77
CP353047[6]	11.8	3.5	2.52	24.0	26.0	70	77
CP35447[6]	15.4	3.5	3.3	29.0	32.0	70	77
CP354047[6]	24.1	3.5	5.17	49.0	53.0	70	77

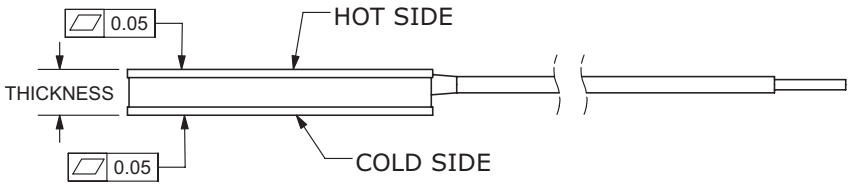
Notes:
1. Maximum voltage at ΔT max and T_h=27°C
2. Maximum current to achieve ΔT max
3. Measured by AC 4-terminal method at 25°C
4. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and ΔT=0°C
5. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)
6. Designed with arcTEC™ structure.

SPECIFICATIONS

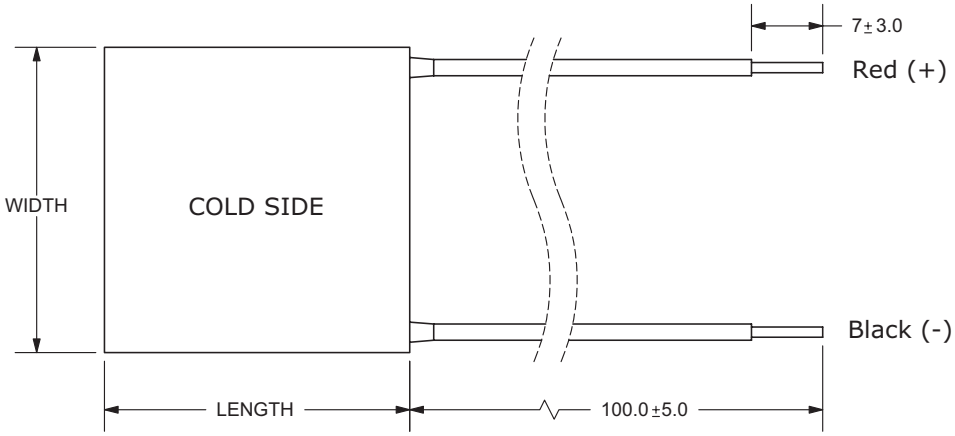
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs CP35347, CP353047, CP35447, CP354047 all other models	 235 138			 °C °C
assembly compression				1	MPa
RoHS	yes				

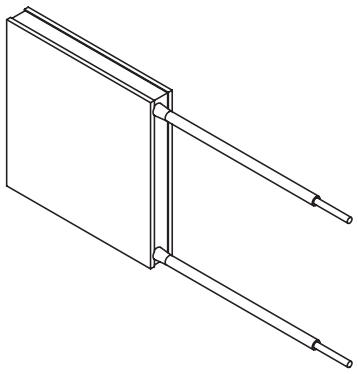
MECHANICAL DRAWING

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	

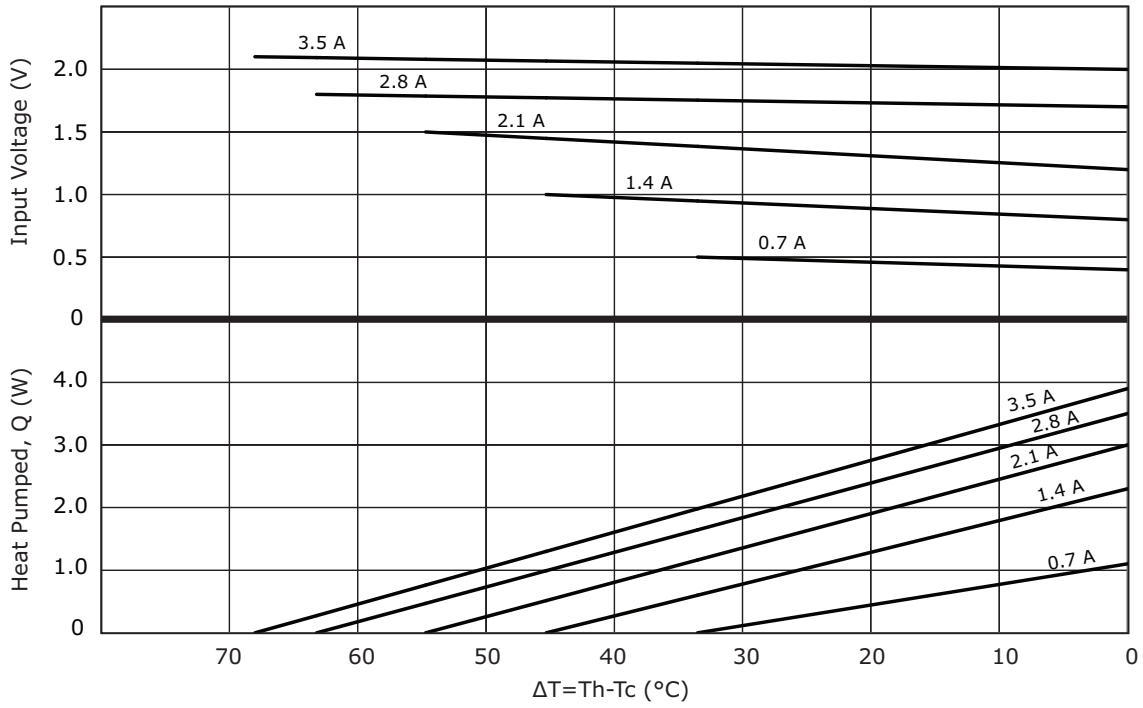




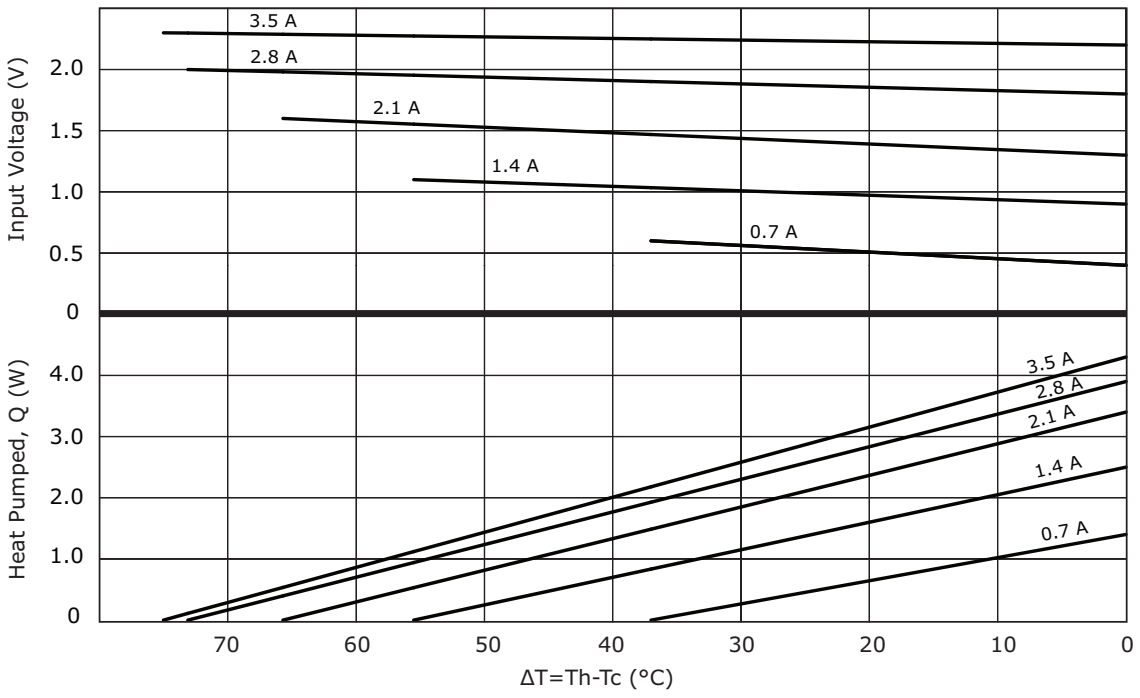
MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP35147	15 ±0.3	15 ±0.3	4.7 ±0.1
CP35247	20 ±0.3	20 ±0.3	4.7 ±0.1
CP35301547	30 ±0.3	15 ±0.3	4.7 ±0.1
CP35347[1]	30 ±0.3	30 ±0.3	4.7 ±0.1
CP353047	30 ±0.3	30 ±0.3	4.7 ±0.1
CP35447	40 ±0.3	40 ±0.3	4.65 ±0.025
CP354047	40 ±0.3	40 ±0.3	4.7 ±0.1

Notes: 1. Wire lead strip length on model CP35347 is 10 ±3.0 mm.

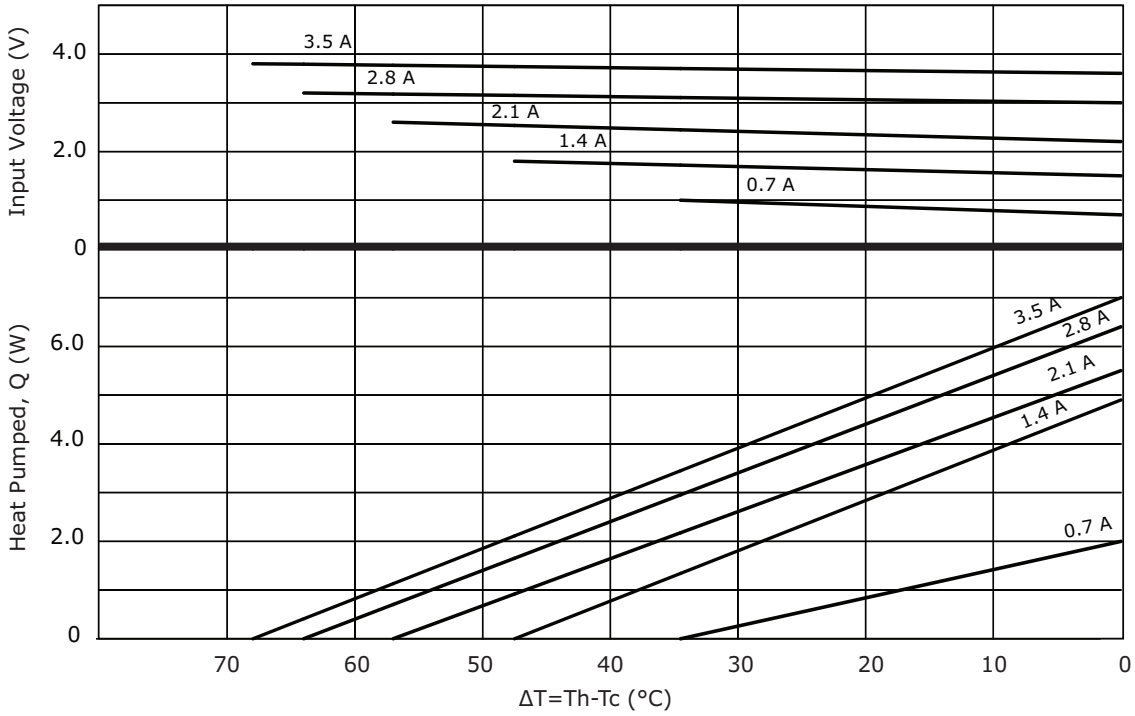
CP35147 PERFORMANCE (Th=27°C)



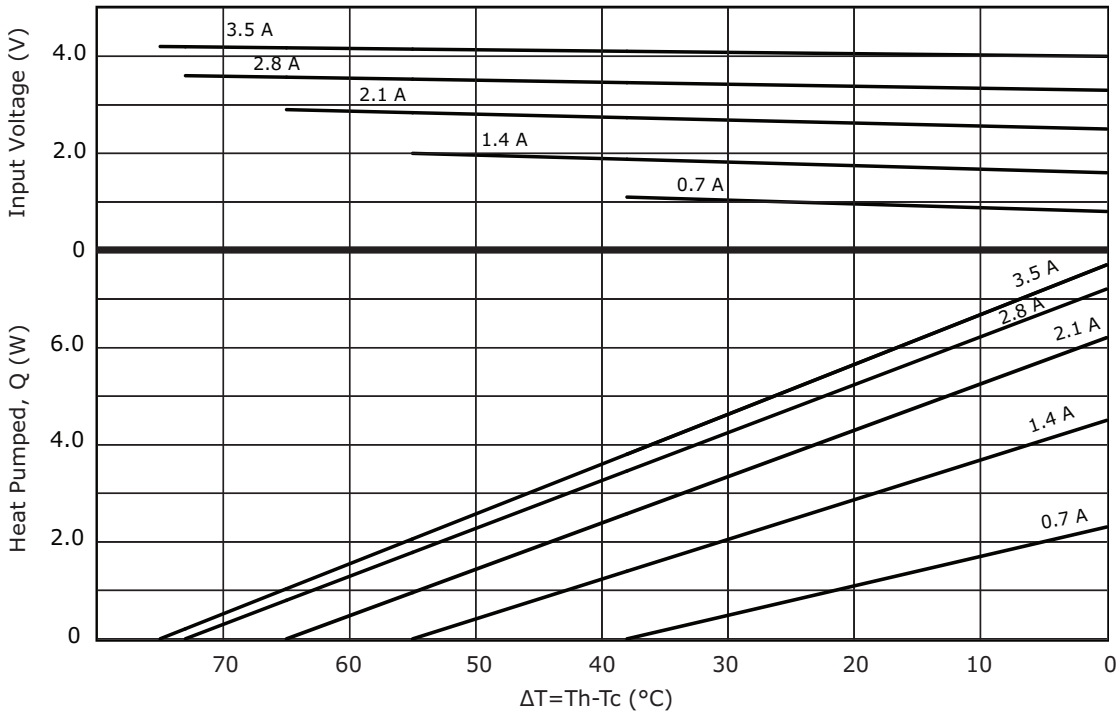
CP35147 PERFORMANCE (Th=50°C)



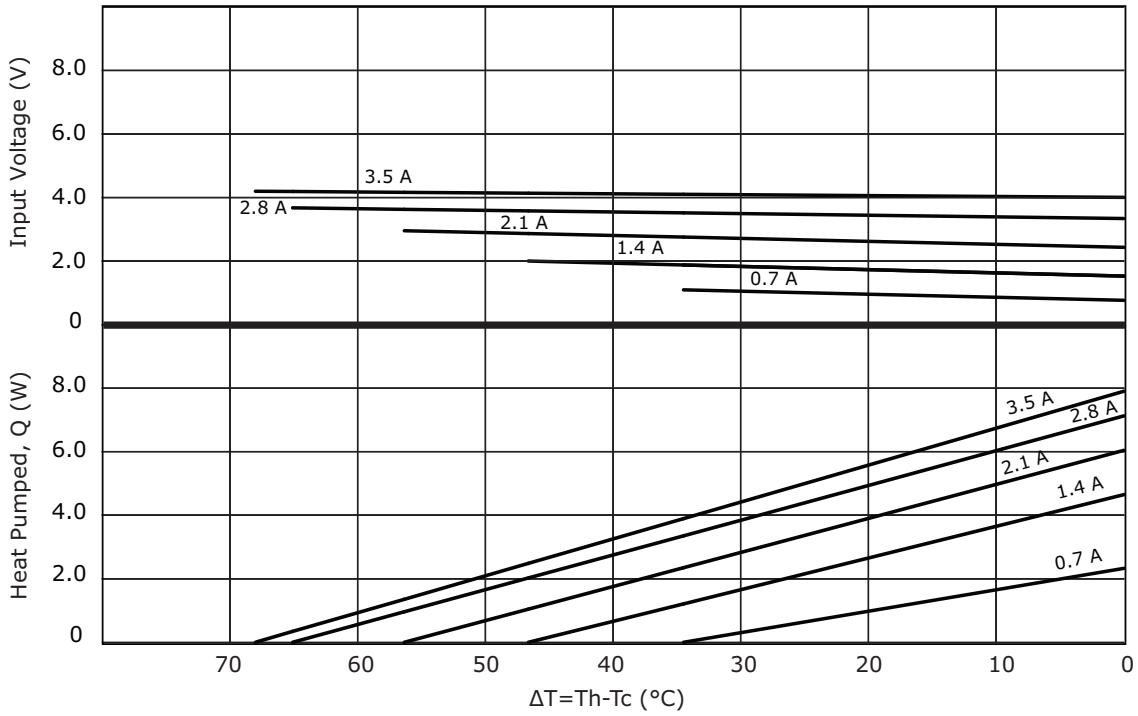
CP35247 PERFORMANCE (Th=27°C)



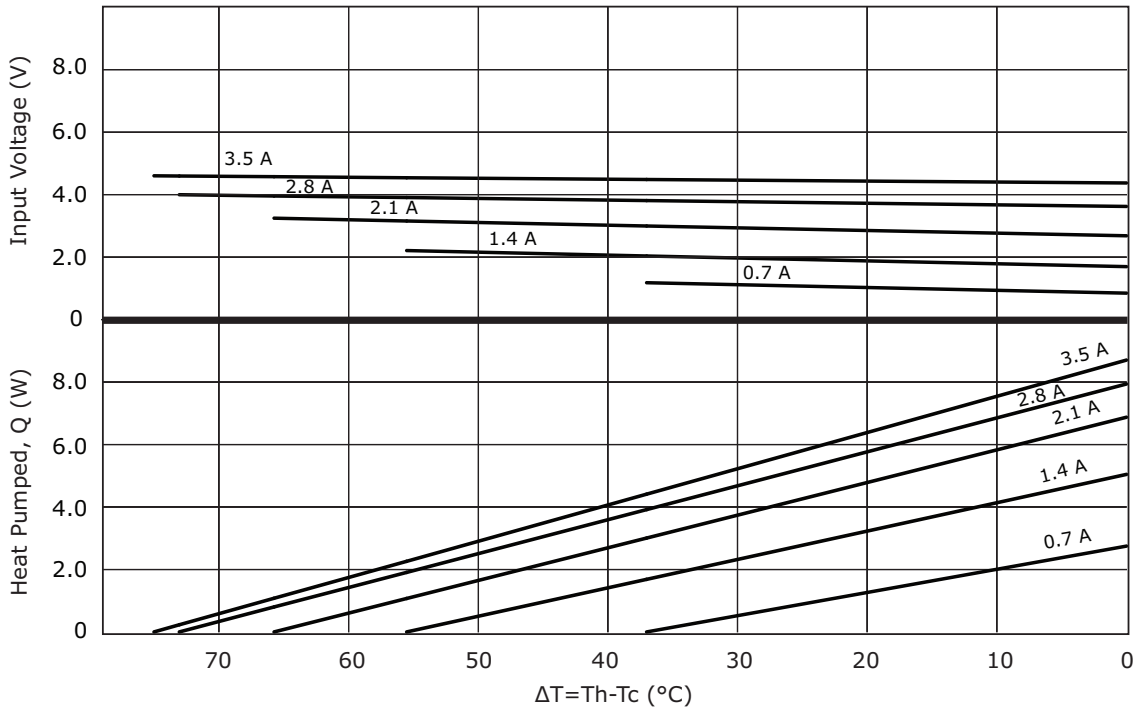
CP35247 PERFORMANCE (Th=50°C)



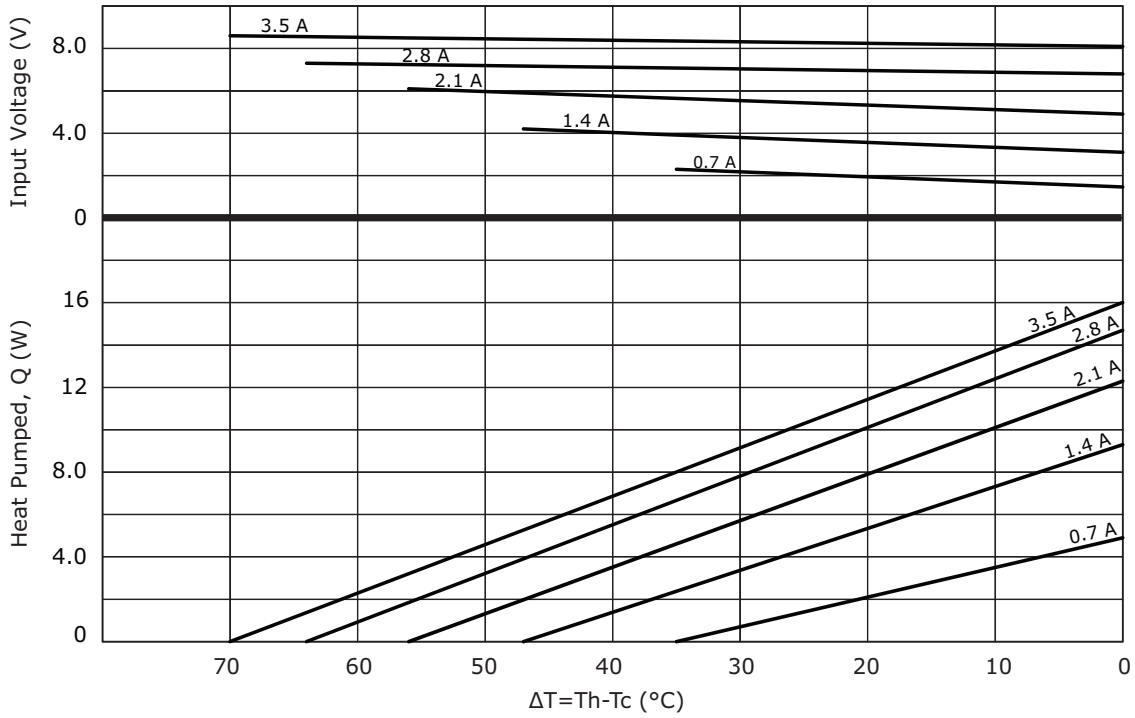
CP35301547 PERFORMANCE (Th=27°C)



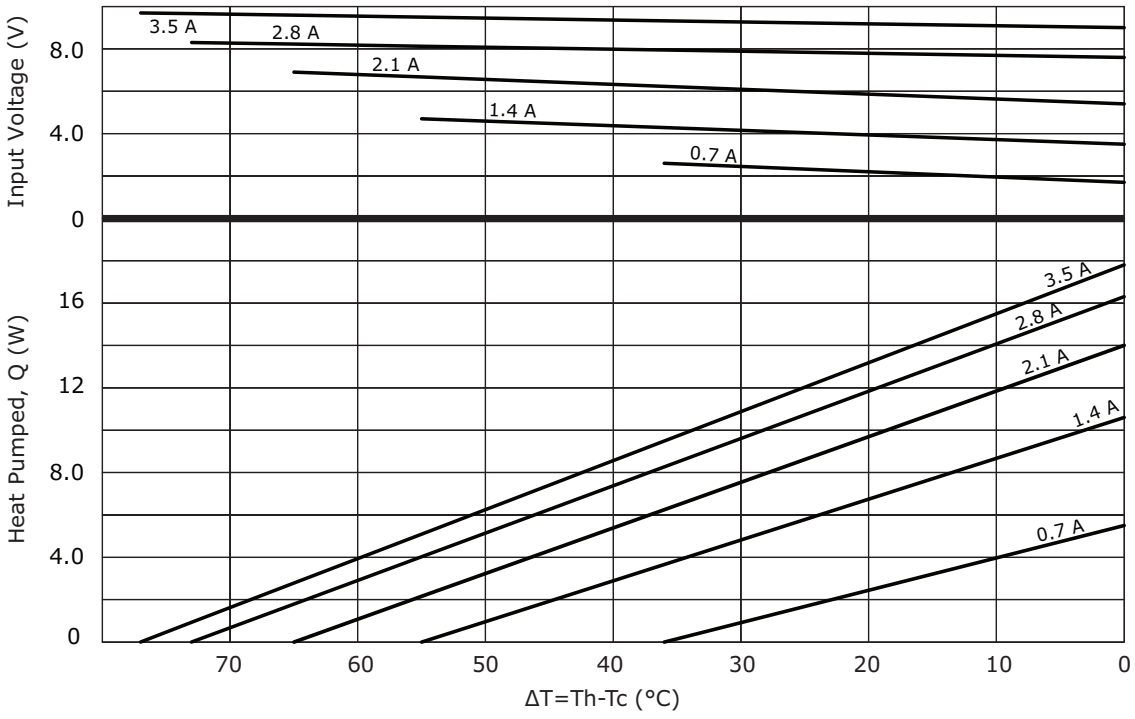
CP35301547 PERFORMANCE (Th=50°C)



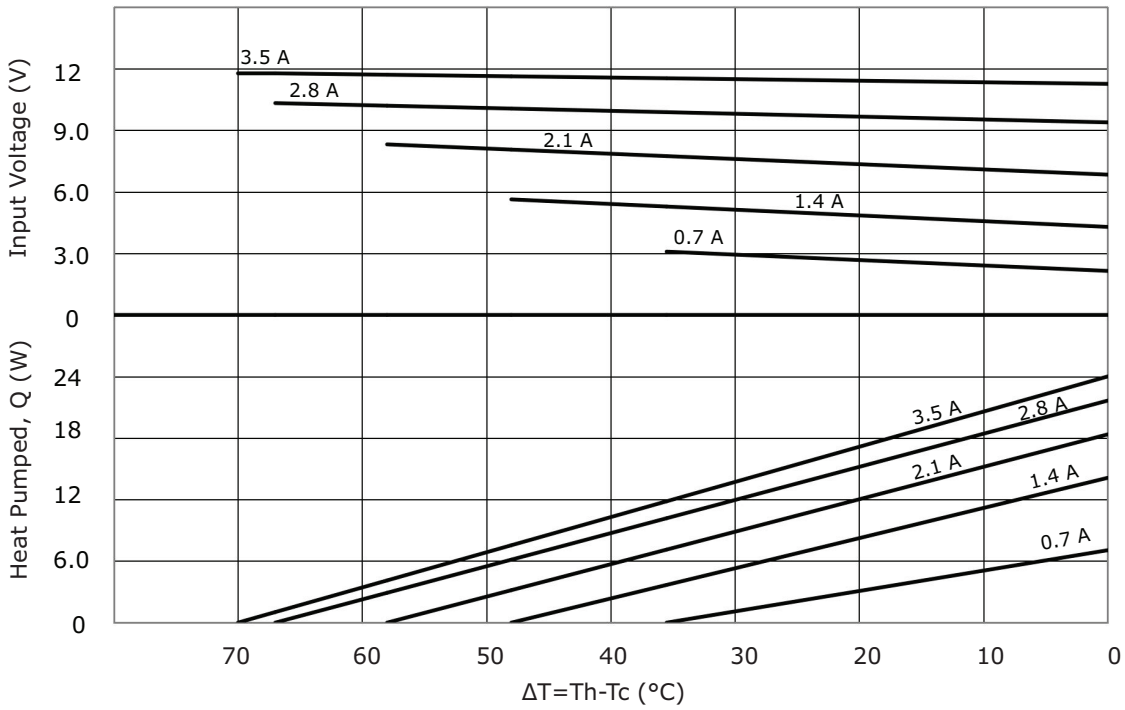
CP35347 PERFORMANCE (Th=27°C)



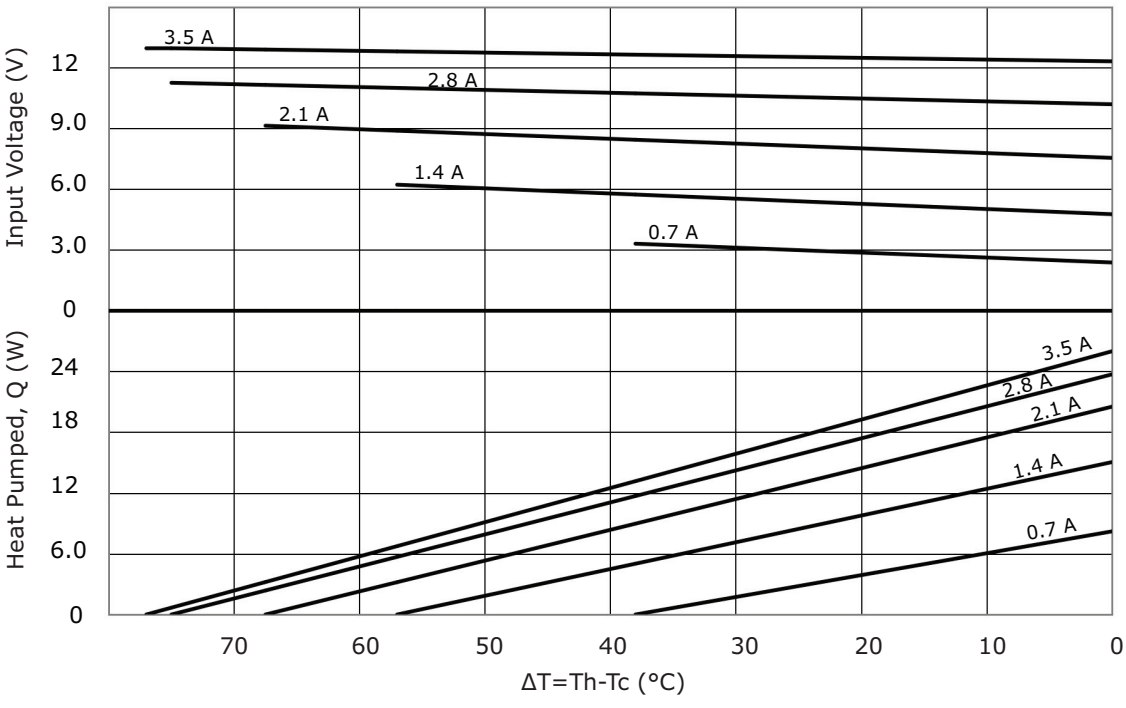
CP35347 PERFORMANCE (Th=50°C)



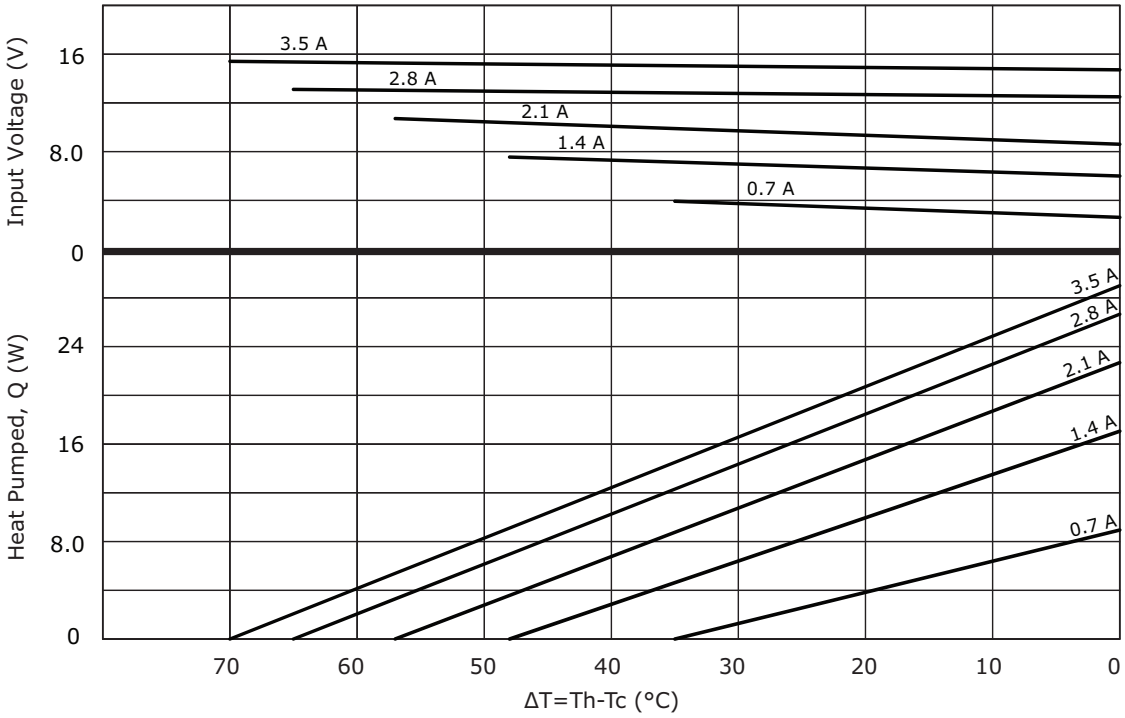
CP353047 PERFORMANCE (Th=27°C)



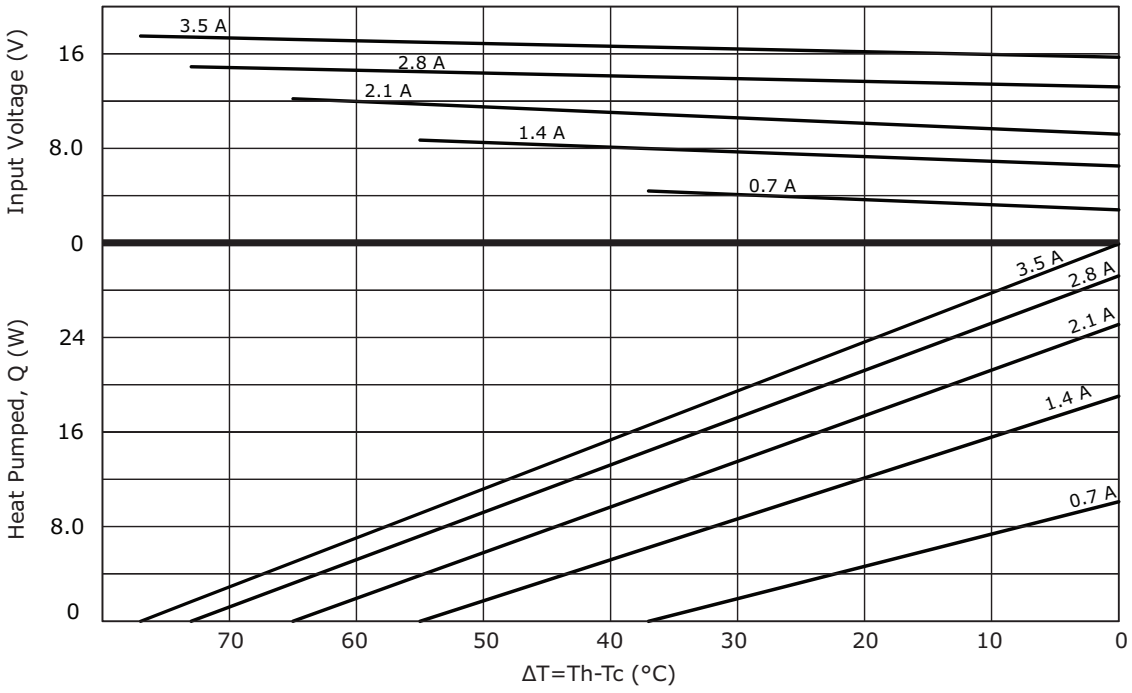
CP353047 PERFORMANCE (Th=50°C)



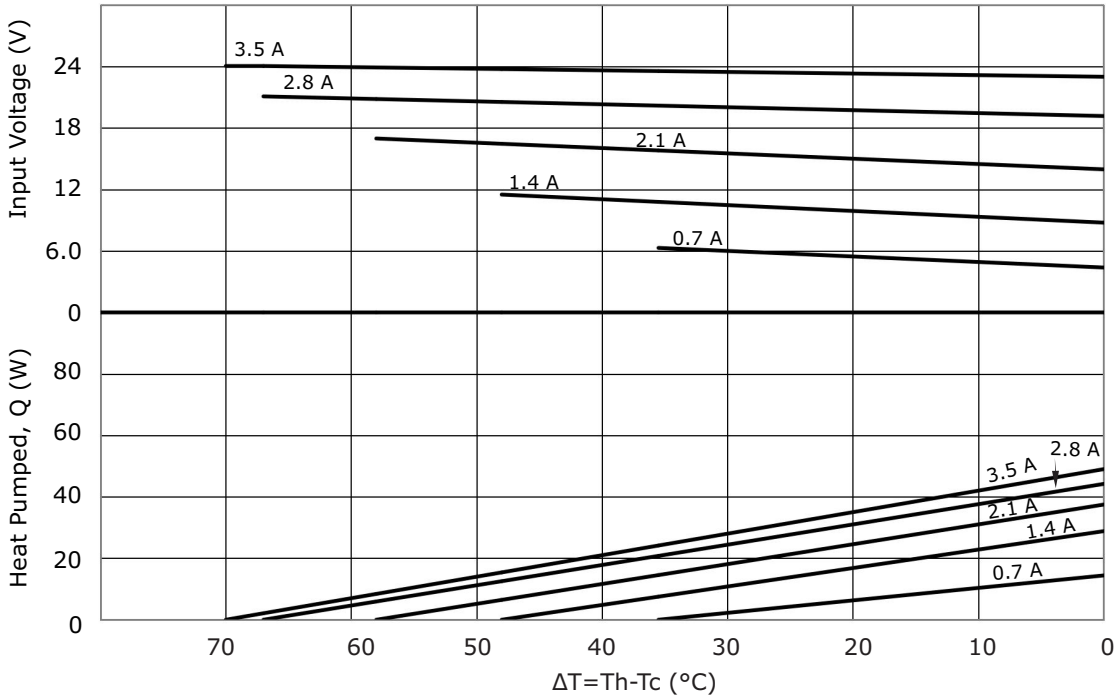
CP35447 PERFORMANCE (Th=27°C)



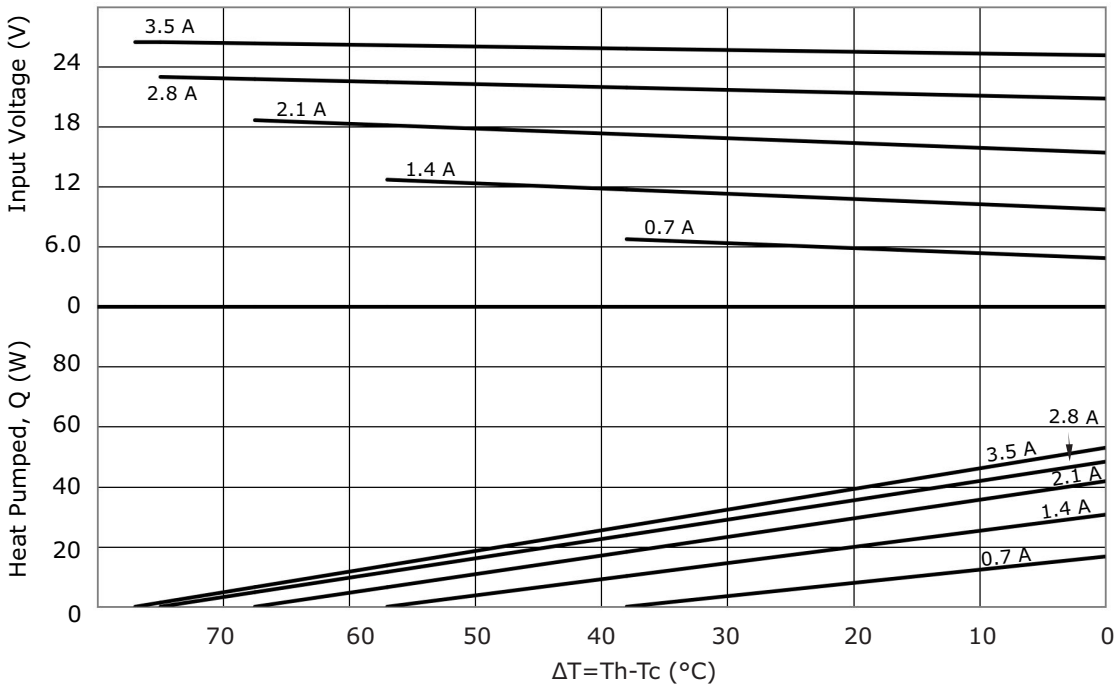
CP35447 PERFORMANCE (Th=50°C)



CP354047 PERFORMANCE (Th=27°C)



CP354047 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
1.02	added models CP353047 & CP354047, brand update	10/18/2019
1.03	logo, datasheet style update	08/05/2022
1.04	CUI Devices rebranded to Same Sky	09/12/2024

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

same sky

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