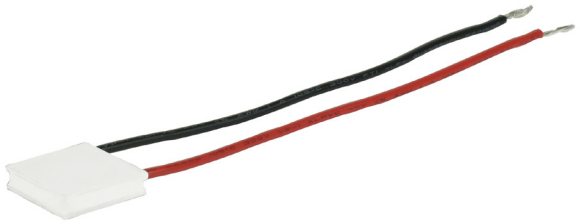
CUI Devices is now Same Sky! Learn More

SERIES: CP39H | 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



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)
CP39136H	3.8	3.9	0.85	8.6	9.5	70	77
CP39236H	8.8	3.9	1.95	18.7	20.9	70	77
CP39234030H	14.9	3.9	3.38	31.0	35.9	68	75
CP39301536H	7.6	3.9	1.73	16.5	18.1	70	77
CP393365H[6]	15.7	3.9	3.50	35.2	39.0	70	77
CP394044365[6]	32.5	3.9	6.95±5%	71.8	80.0	70	77

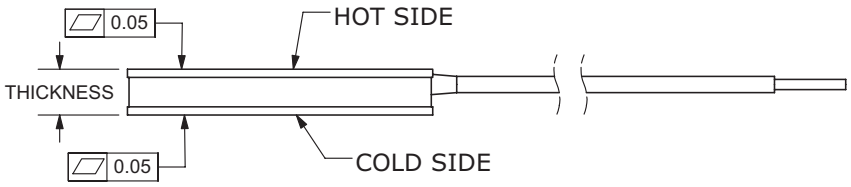
Notes:
1. Maximum voltage at ΔT max and T_h=27°C
2. Maximum current to achieve ΔT max
3. Measured by AC 4-terminal method at 25°C
4. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and ΔT=0°C
5. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT max measured in a vacuum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

SPECIFICATIONS

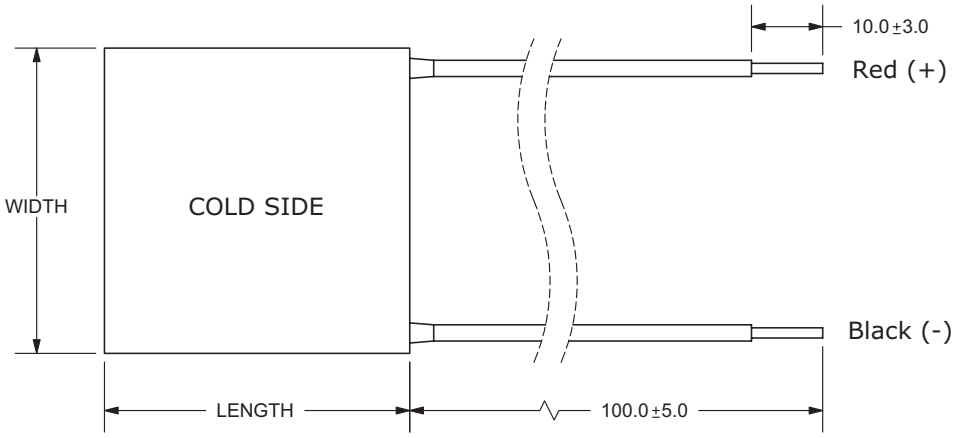
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
RoHS	yes				

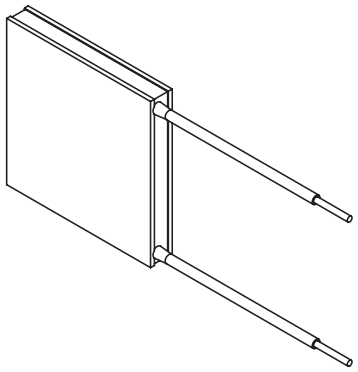
MECHANICAL DRAWING

units: mm



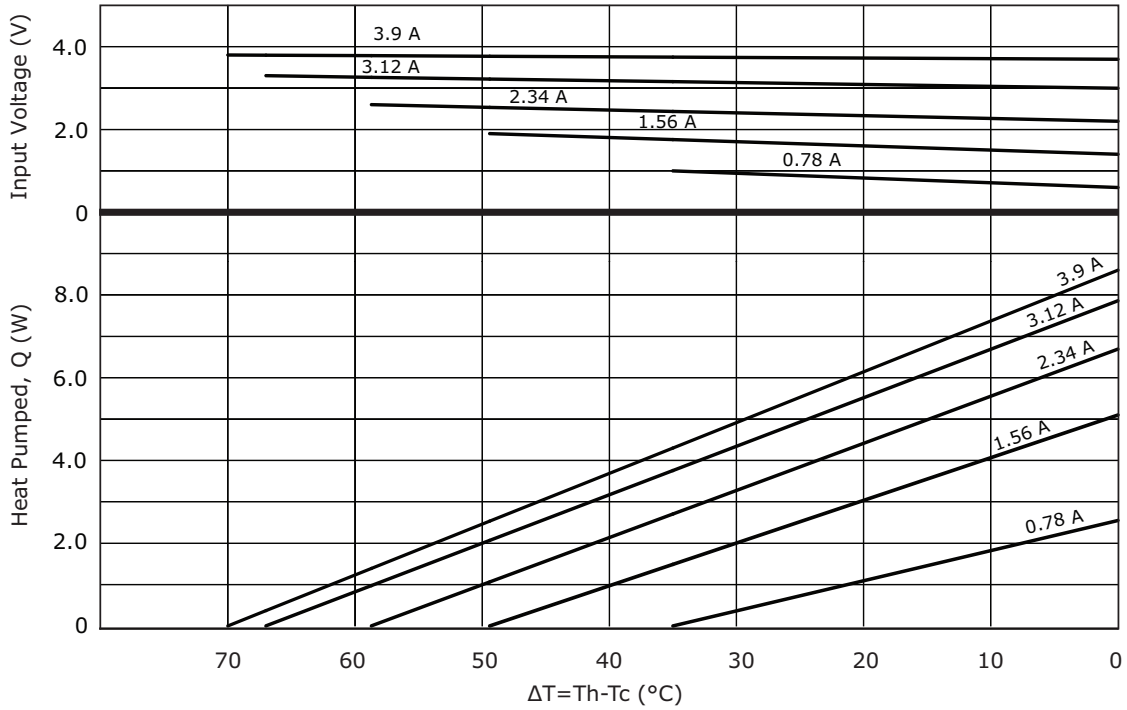
	MATERIAL	PLATING
ceramic plate	96% AL_2O_3	
wire leads	22 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	



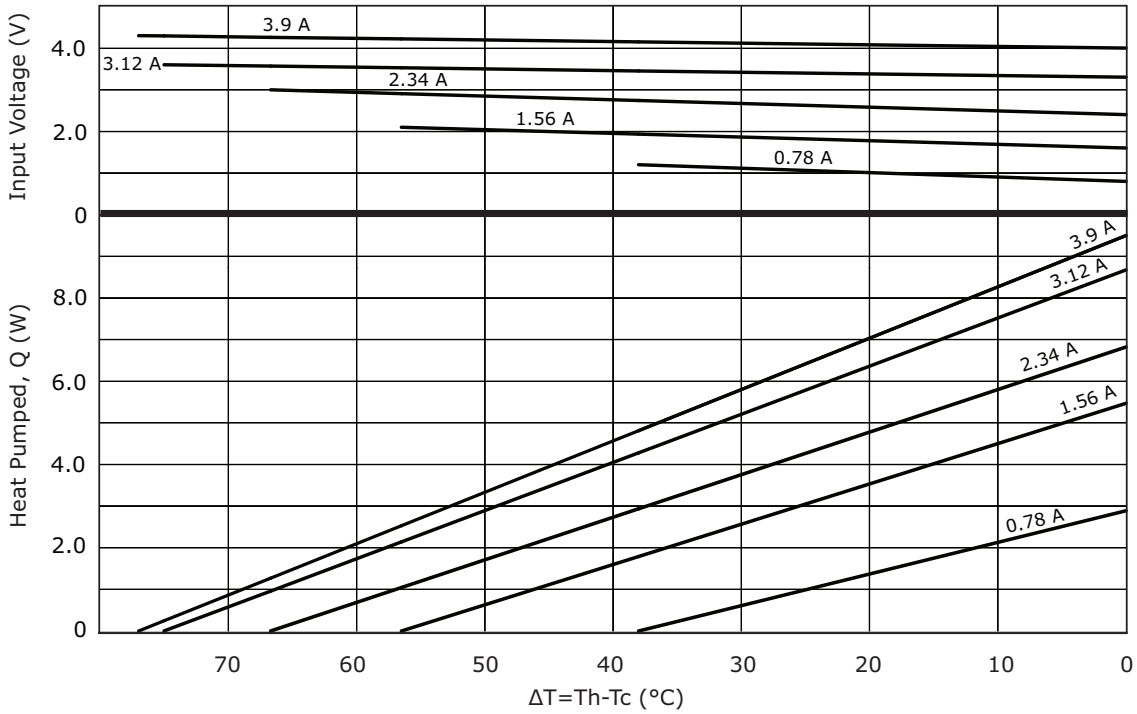


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP39136H	15 ±0.3	15 ±0.3	3.6 ±0.025
CP39236H	20 ±0.3	20 ±0.3	3.6 ±0.025
CP39234030H	23 ±0.3	40 ±0.3	3.0 ±0.05
CP39301536H	30 ±0.3	15 ±0.3	3.6 ±0.025
CP393365H	30 ±0.3	30 ±0.3	3.65 ±0.025
CP394044365	44 ±0.3	40.5 ±0.3	3.65 ±0.1

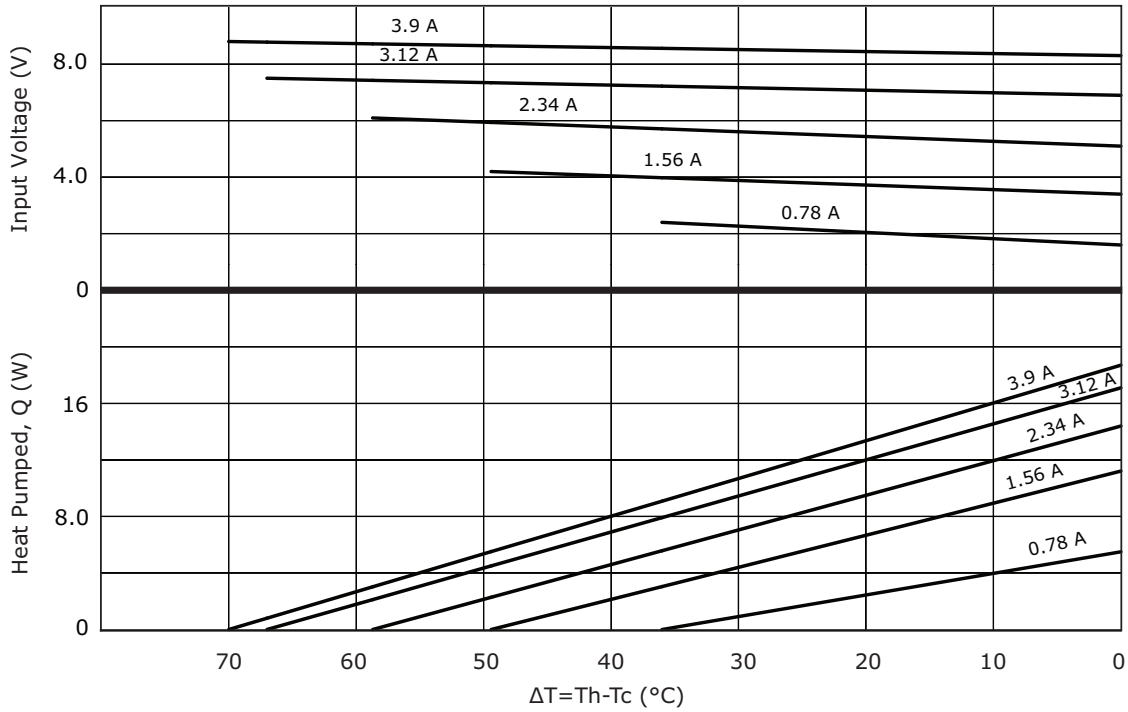
CP39136H PERFORMANCE (Th=27°C)



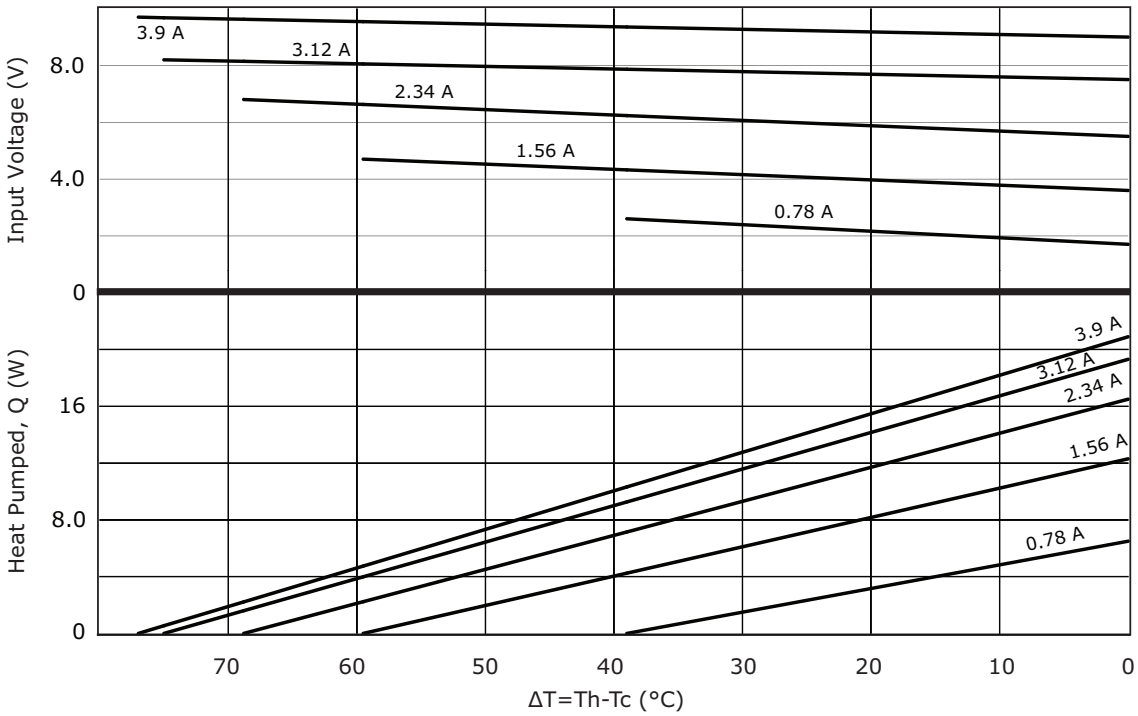
CP39136H PERFORMANCE (Th=50°C)



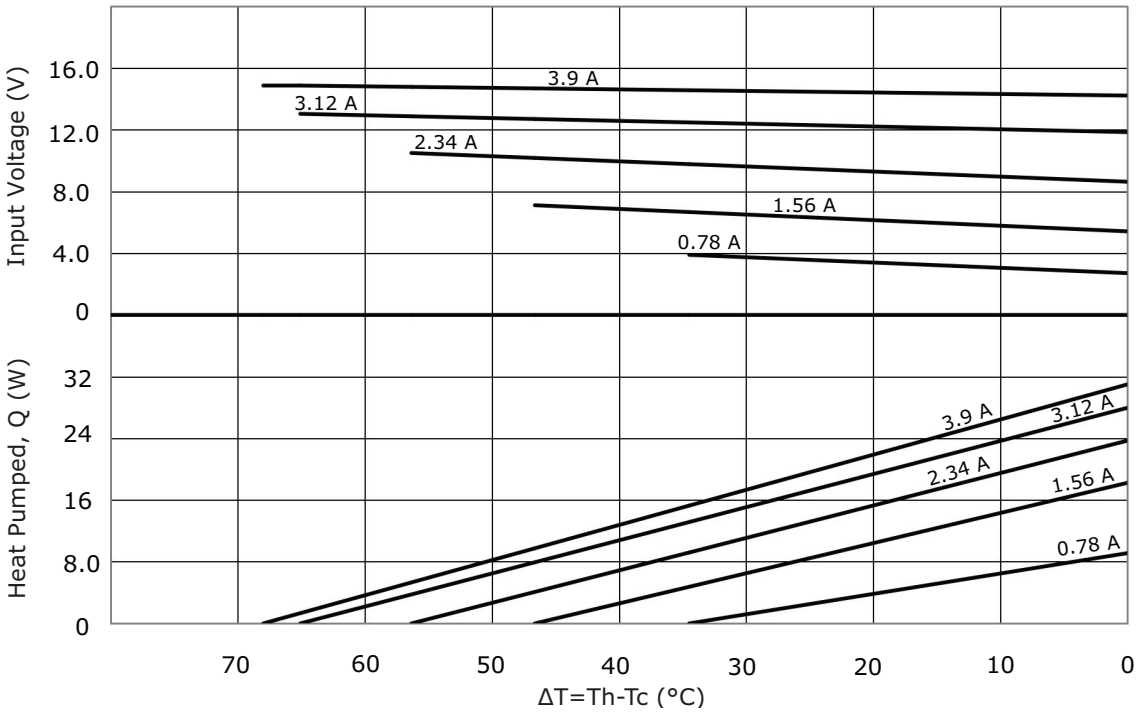
CP39236H PERFORMANCE (Th=27°C)



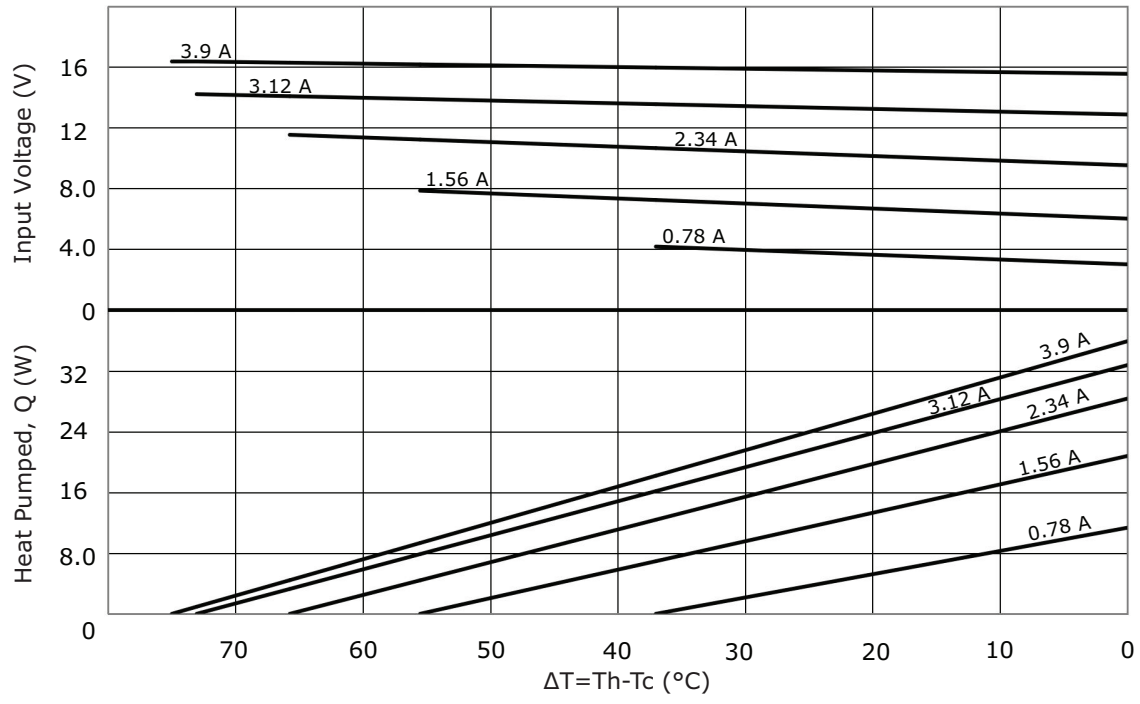
CP39236H PERFORMANCE (Th=50°C)



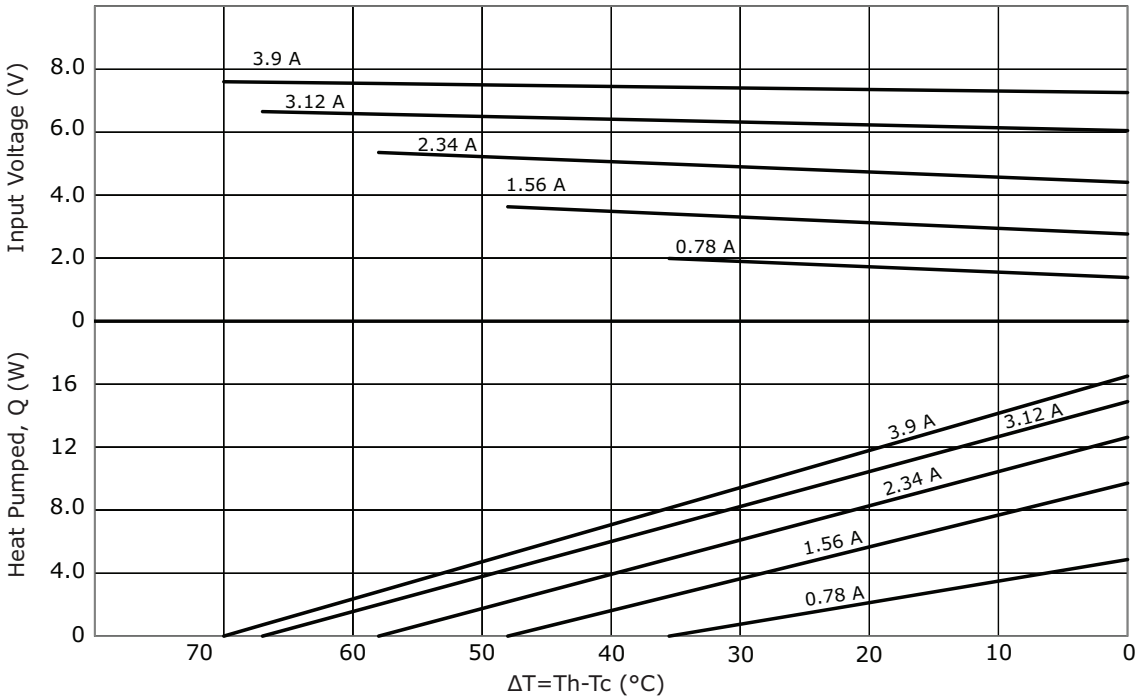
CP39234030H PERFORMANCE (Th=27°C)



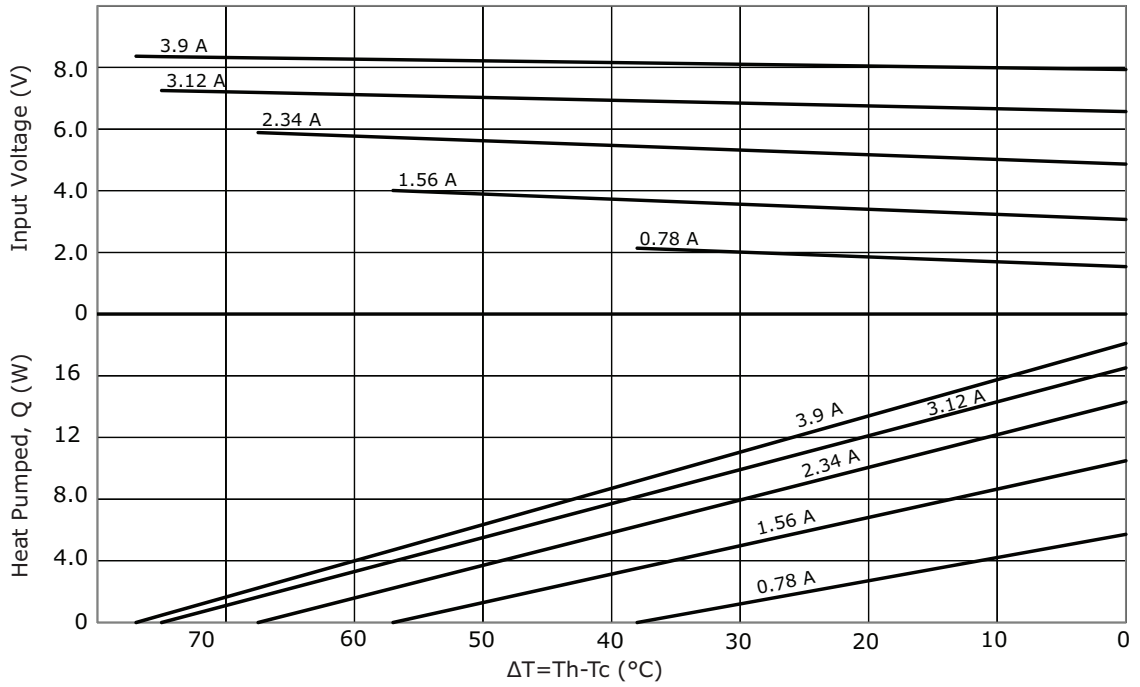
CP39234030H PERFORMANCE (Th=50°C)



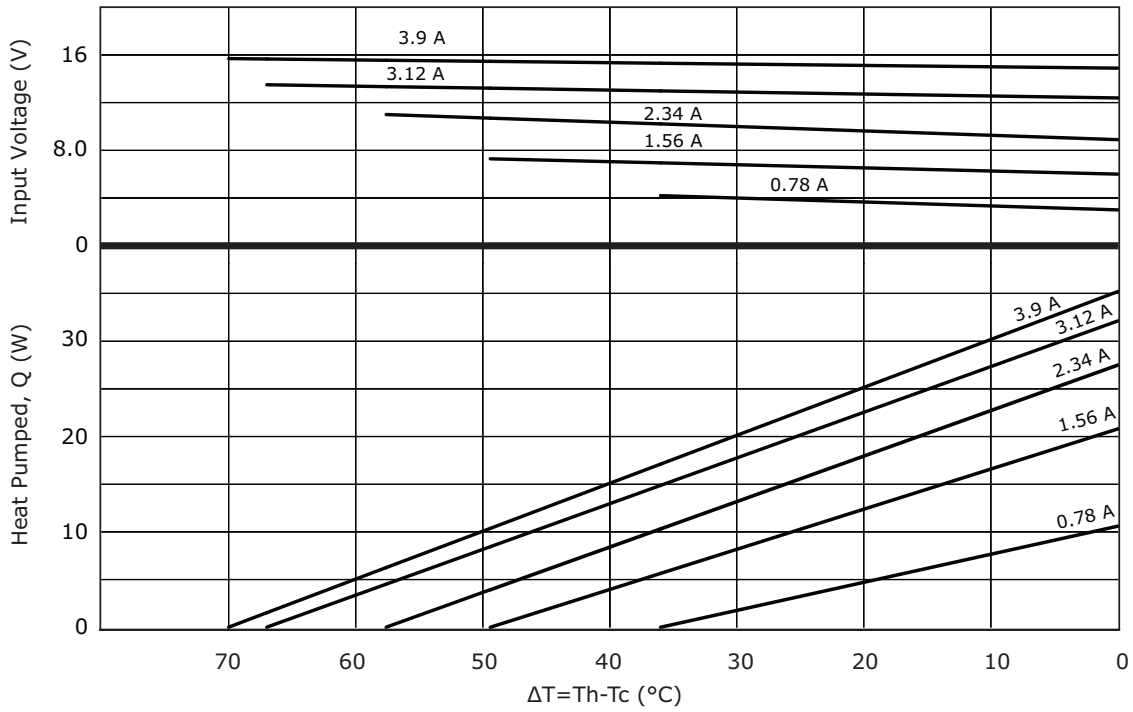
CP39301536H PERFORMANCE (Th=27°C)



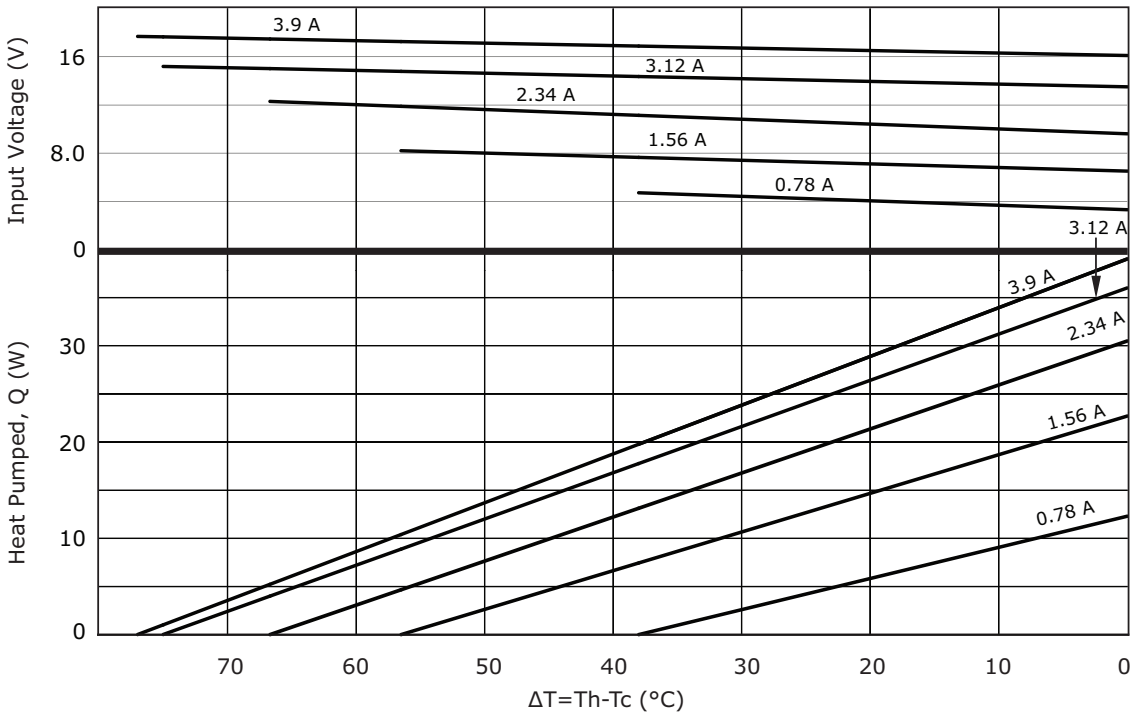
CP39301536H PERFORMANCE (Th=50°C)



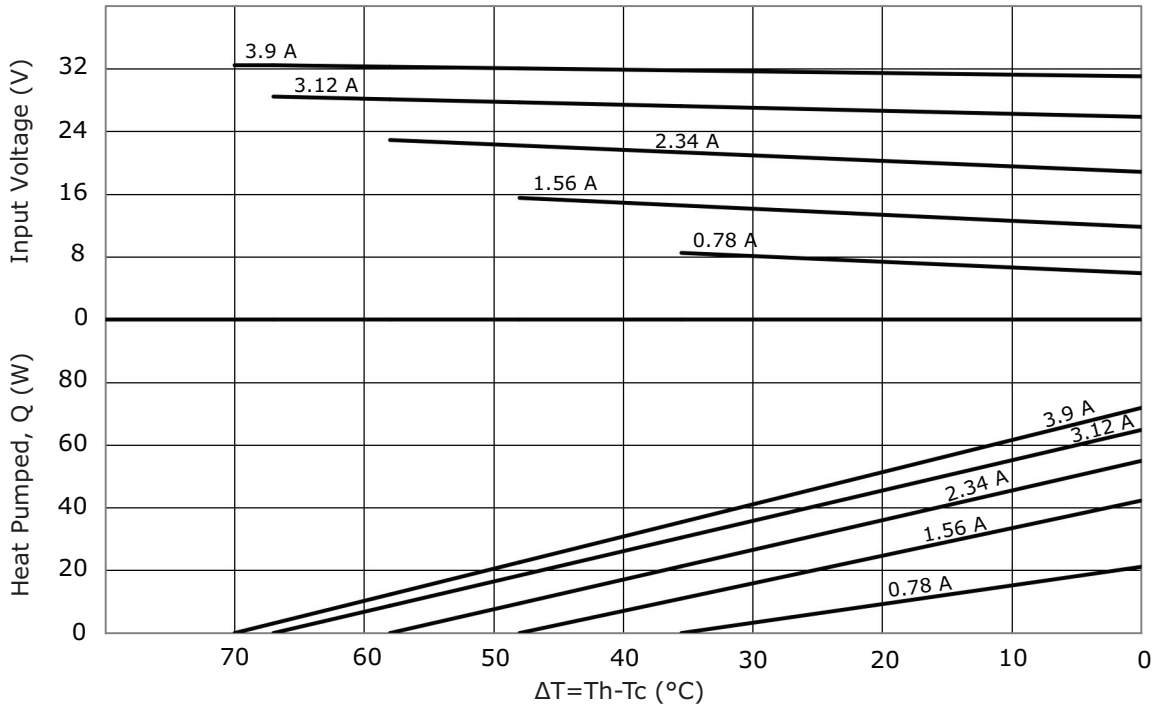
CP393365H PERFORMANCE (Th=27°C)



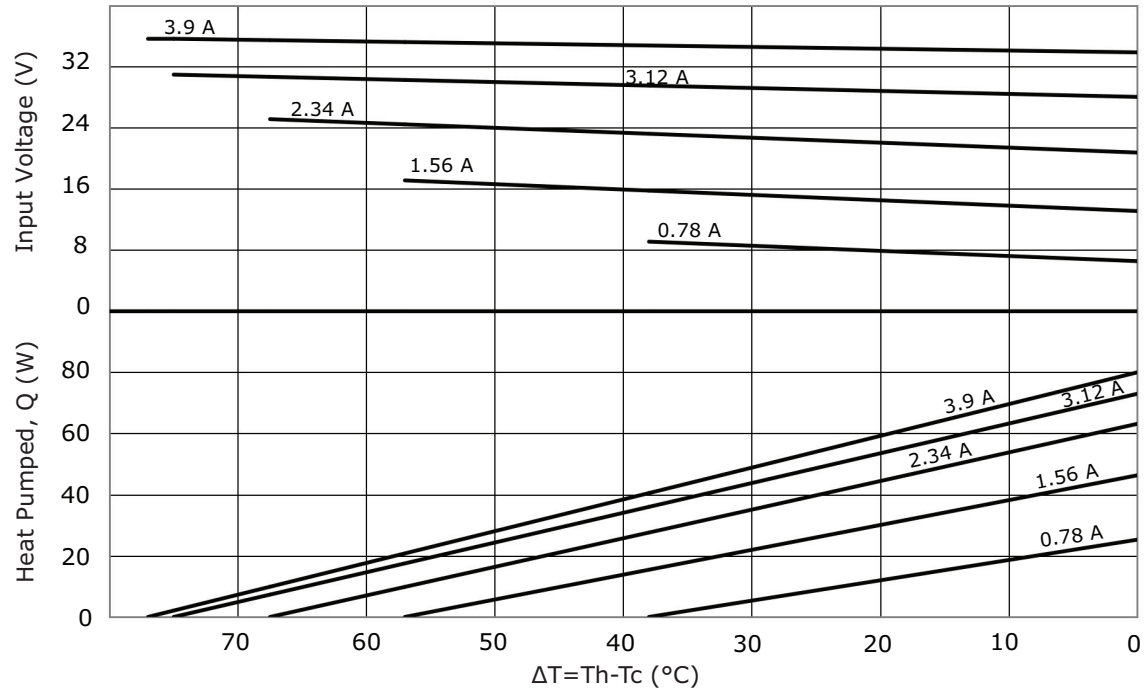
CP393365H PERFORMANCE (Th=50°C)



CP394044365 PERFORMANCE (Th=27°C)



CP394044365 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 model	05/21/2018
1.03	added model CP394044365, brand update	10/16/2019
1.04	added model CP39234030H	11/12/2020
1.05	logo, datasheet style update	08/05/2022
1.06	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

Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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