



MODEL: CPM-2C | DESCRIPTION: PELTIER COOLING UNIT

FEATURES

- arcTEC™ structure
- easy installation
- tight seal structure for water resistance and absorption of thermal stress
- wide ΔT_{max}
- precise temperature control



MODEL

	input voltage ¹ max [V]	input current max [A]	output Q_{max}^2 $T_h=50^{\circ}\text{C}$ [W]	output ΔT_{max}^2 $T_h=50^{\circ}\text{C}$ [°C]
CPM-2C	12	7	43	85.9

Notes: 1. at inverse voltage, "cold side plate" becomes hot side plate
2. maximum cooling capacity at I_{max} , V_{max} , and $\Delta T=0^{\circ}\text{C}$
3. maximum temperature difference at I_{max} , V_{max} , and $Q=0\text{W}$ (maximum parameters are measured in a vacuum)

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance ⁴		1.48		1.82	Ω
cold side plate		-20		60	$^{\circ}\text{C}$

Notes: 4. measured by AC 4-terminal method at 25°C

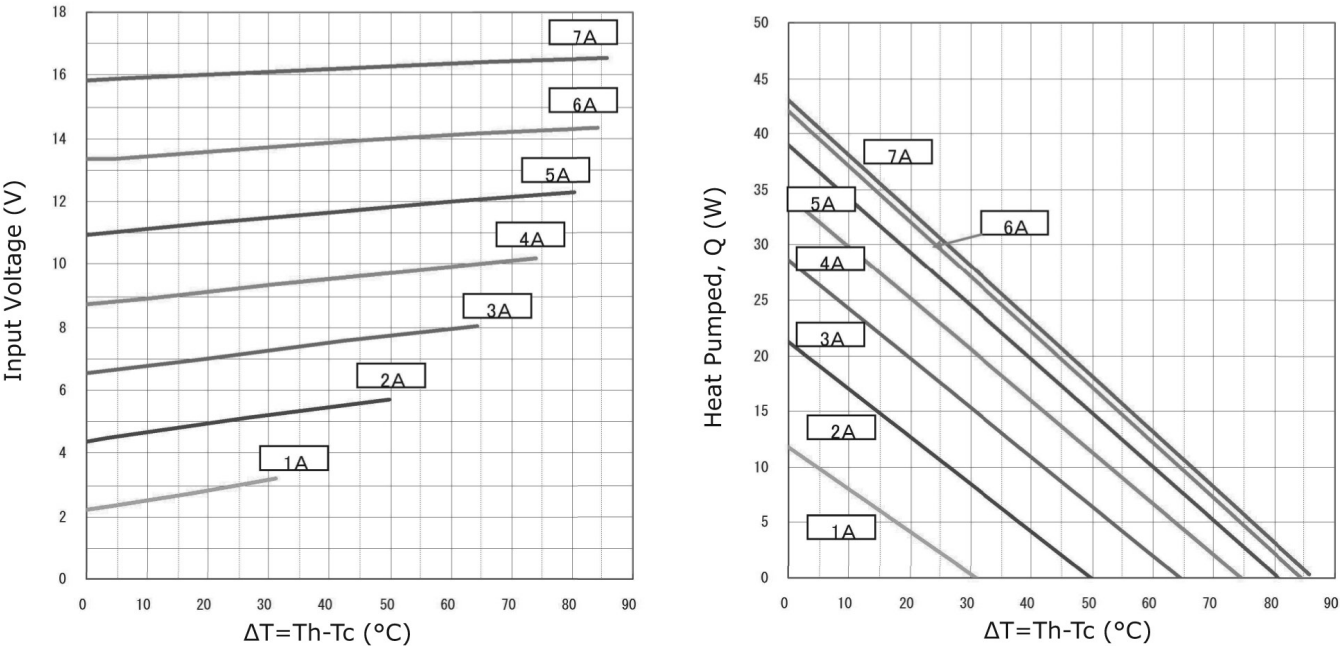
SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	for 1 second			1,200	Vac
insulation resistance	input to output at 250 Vdc	10			M Ω
RoHS	yes				

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		0		35	$^{\circ}\text{C}$
storage temperature		-20		70	$^{\circ}\text{C}$
operating humidity		30		85	%
storage humidity		10		90	%

CPM-2C PERFORMANCE (Th=50°C)



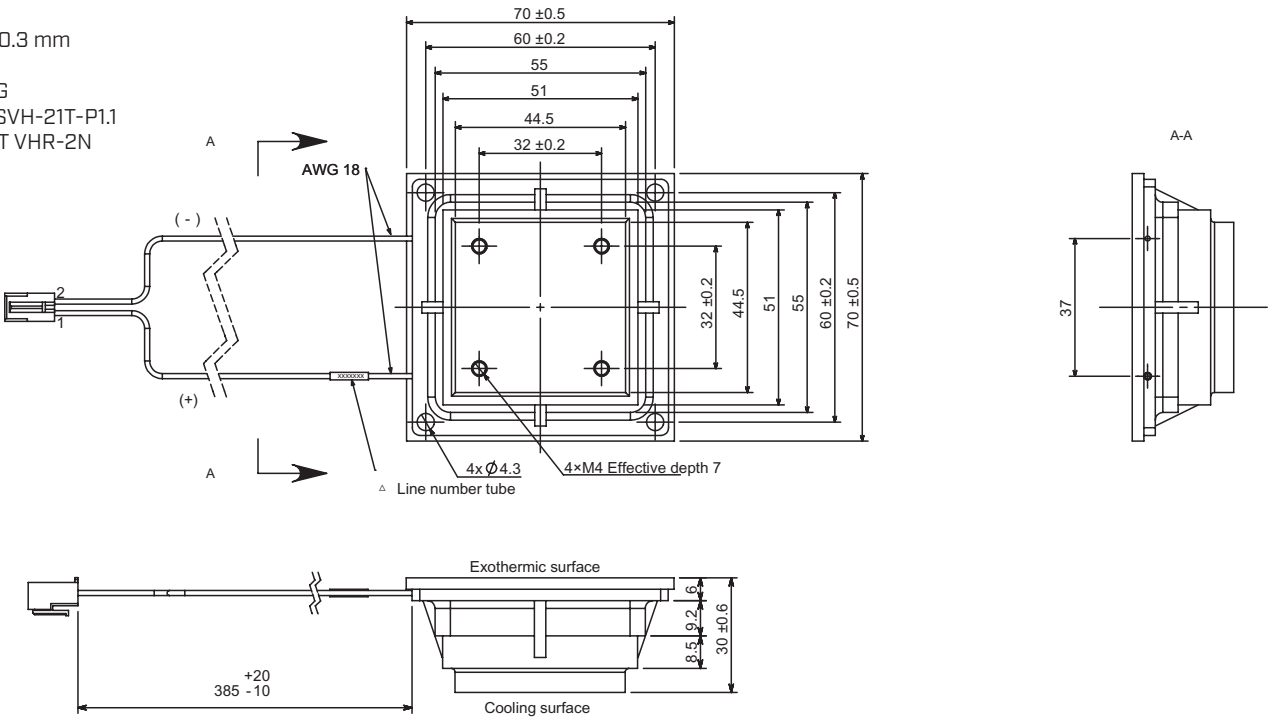
MECHANICAL

parameter	conditions/description	min	typ	max	units
weight			220		g
cooling medium	aluminum				
heat radiation medium	aluminum				

MECHANICAL DRAWING

units: mm
tolerance: ± 0.3 mm

wire: 18 AWG
connector: SVH-21T-P1.1
housing: JST VHR-2N



REVISION HISTORY

rev.	description	date
1.0	initial release	11/07/2019
1.01	logo, datasheet style update	08/05/2022
1.02	updated drawing	09/27/2023
1.03	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 offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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