Additional Resources: Product Page



date 11/13/2024 page 1 of 4

MODEL: SPG110-40 | DESCRIPTION: THERMOELECTRIC GENERATOR

FEATURES

- TEG module
- 11 W output
- up to 300°C continuous maximum hot side temp
- silicone sealed
- $\boldsymbol{\cdot}$ graphite pad option available



ROHS

SPECIFICATIONS

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parameter	conditions/description	min	typ	max	units
open circuit voltage	at Th = 300°C, Tc = 30°C		12.6		V
matched load resistance	at Th = 300°C, Tc = 30°C		3.6		Ω
matched load output voltage	at Th = 300°C, Tc = 30°C		6.3		V
matched load output current	at Th = 300°C, Tc = 30°C		1.75		А
matched load output power	at Th = 300°C, Tc = 30°C		11.0		W
heat flow across module			192		W
heat flow density			12.0		W/cm²
ac resistance	at 27 °C, 1000 Hz	1.4		2.0	Ω
solder melting temperature	cold side: SnAgSn solder hot side: no solder, aluminum bonding	217			°C
hot side plate		-60		300	°C
cold side plate		-60		180	°C
assembly compression				1.4	MPa
mounting torque per screw	screw diameter / # of screws: 4 mm / 2		0.128		kg-m
RoHS	Ves				

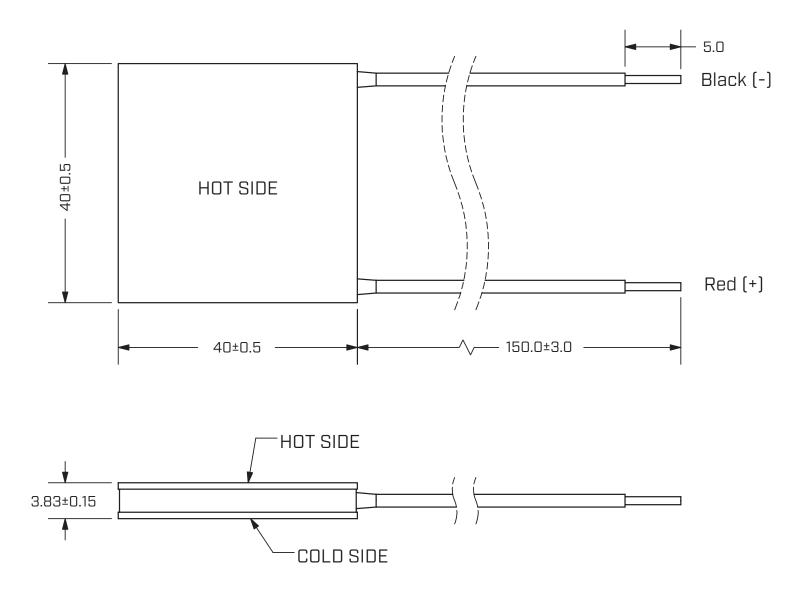
Note: 1. Product available with graphite pad on hot/cold, please inquire with Same Sky sales.

MECHANICAL DRAWING

units: mm

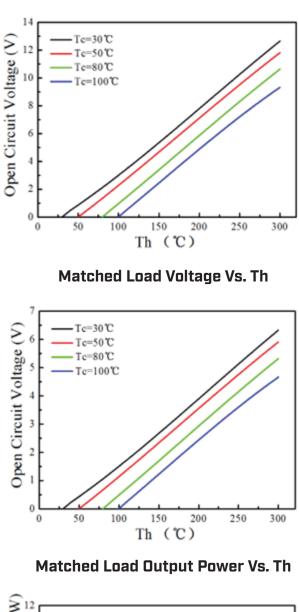
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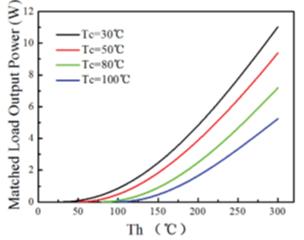
	MATERIAL	PLATING	
ceramic plate	96% AL ₂ O ₃		
wire leads	AF250 22 AWG	tin	
sealer	BG SIDUN 3.0 (between cold and hot side plates)		
marking	P/N & "HOT SIDE" printed on hot side surface		



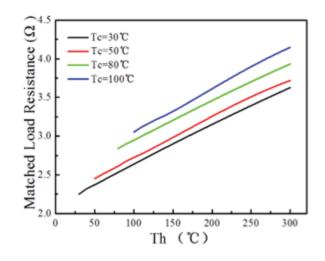
Open Circuit Voltage Vs. Th

PERFORMANCE CURVES

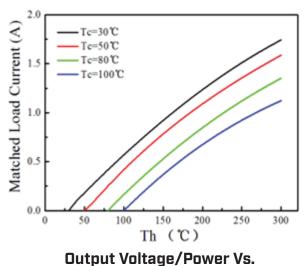




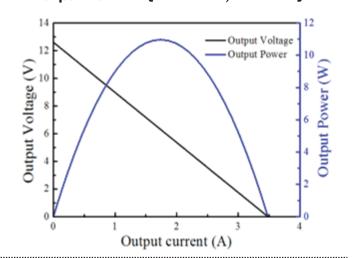
Matched Load Resistance Vs. Th



Matched Load Current Vs. Th



Output Current (Th=300°C, Tc= 30°C)



sameskydevices.com

REVISION HISTORY

rev.	description	date
1.0	initial release	11/13/2024

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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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.