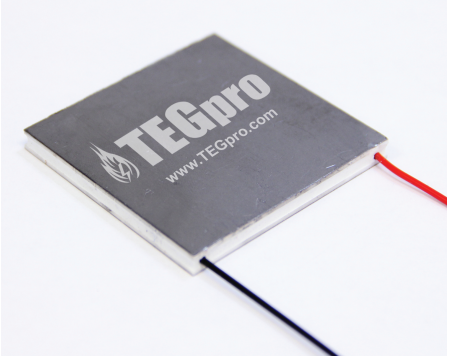
TEGpro™
Recycling waste heat for a cooler tomorrow

TGMT-19W-4V
19 Watt Thermoelectric Module

Product Overview

The TEGpro TGMT-19W-4V thermoelectric module is specifically designed for power generation from high temperature heat sources. Our Bi-Te based thermoelectric module can operate continuously at 330˚C (626˚F) and intermittently up to 400˚C (752˚F). The thermoelectric module will generate power when there is a temperature between the two sides. As the temperature difference becomes larger, the efficiency increases. The module has thermally conductive graphite sheets on both sides of the ceramic plates to provide low thermal resistance, therefore you will not need thermal grease or compound when the module is installed. The graphite sheet work well at high temperature.

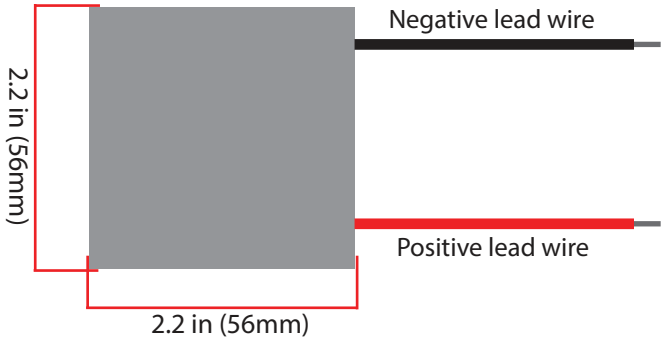


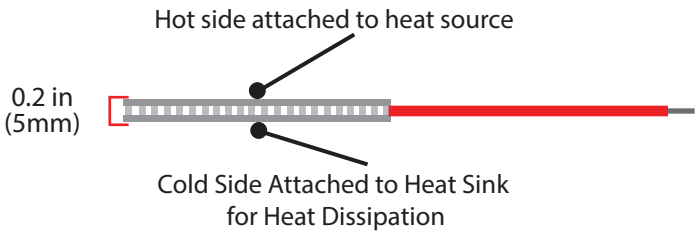
The Tegpro 19 Watt High Temperature Thermoelectric Module

Specifications

Hot Side Temperature	572 °F (300 °C)
Cold Side Temperature	86 °F (30 °C)
Open Circuit Voltage (V)	8.4
Matched Load Resistance (ohms)	0.9
Matched load output voltage (V)	4.2
Matched load output current (A)	4.6
Matched load output power (W)	19.3
Heat flow across the module(W)	≈ 386
Heat flow density(W cm-2)	≈ 12.3
AC Resistance (ohms) Measur under 27 °C at 1000Hz	0.25~0.45

Geometric Characteristics



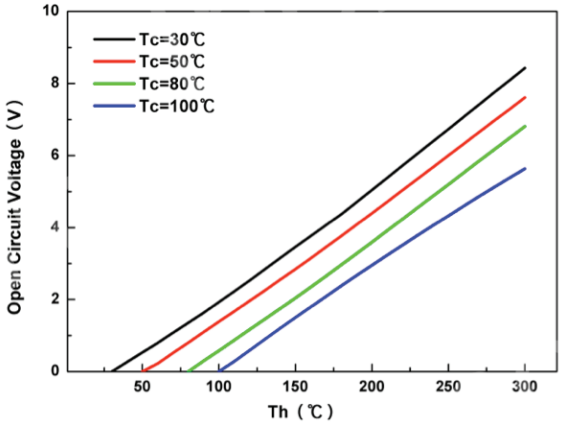


TEGpro
802.728.4533 P
802.728.3800 F
info@tegpro.com
www.tegpro.com

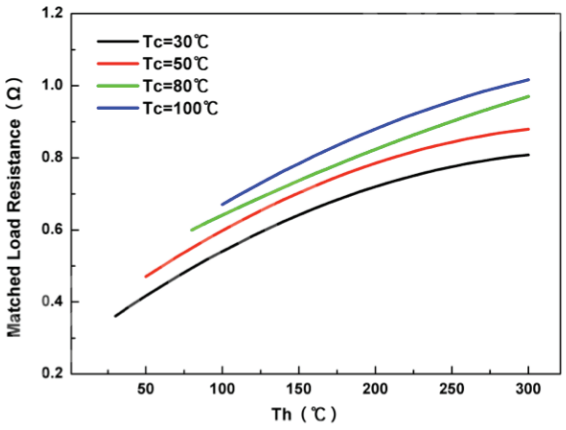
TEGpro™
Recycling waste heat for a cooler tomorrow

TGMT-19W-4V
19 Watt Thermoelectric Module

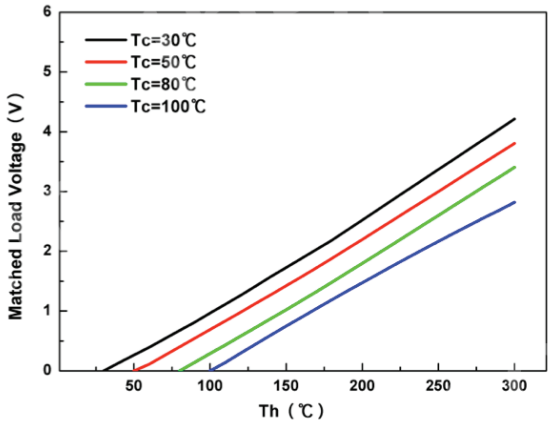
Module Performance

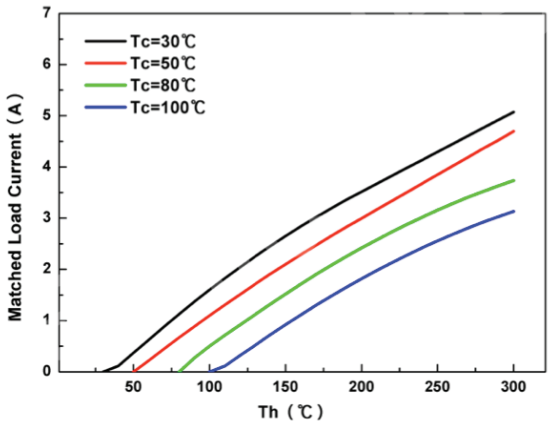


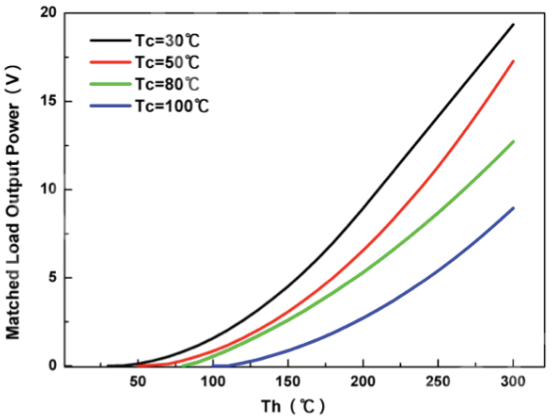
The chart for open circuit voltage Vs T_h under various T_c



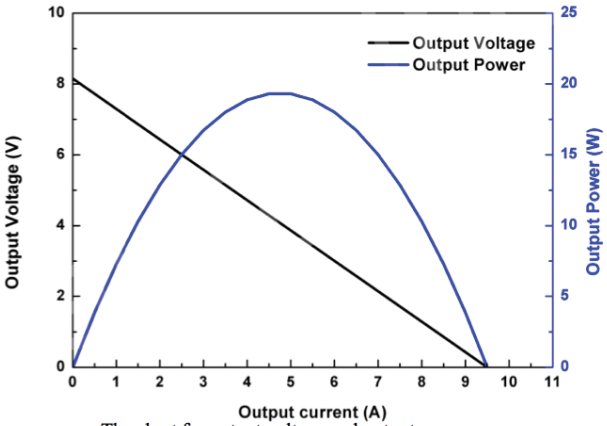
The chart for matched load resistance Vs T_h under various T_c







The chart for matched load output power Vs T_h under various T_c



The chart for output voltage and output power Vs output current under T_h=300℃ and T_c=30℃

TEGulator
802.728.4533 P
802.728.3800 F
info@tegpro.com
www.tegpro.com

TEGpro™
Recycling waste heat for a cooler tomorrow