

Product Overview

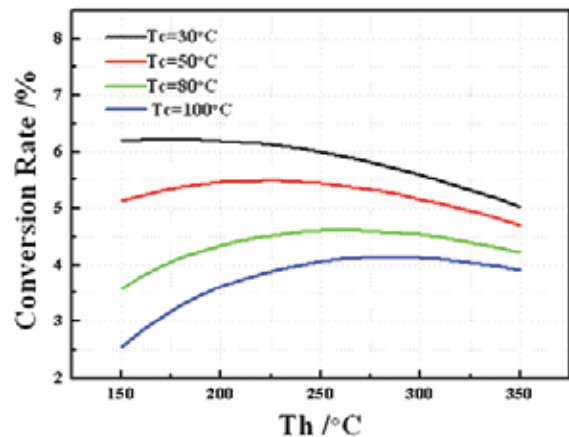
The Tegpro high temperature thermoelectric module was designed specifically for converting high temperature heat sources directly into electricity. Our Bi-Te based thermoelectric modules operate continuously at temperatures as high as 330 °C (626 °F) and up to 400 °C (752 °F) intermittently. The thermoelectric modules will generate DC power as long as there's a temperature difference across both sides of the module. The output power and efficiency will increase as the temperature difference increases across both sides of the module. Highly conductive graphite is applied to both sides of the module to increase thermal conductivity so there's no need to apply thermal grease or other heat transfer compound during installation.



Specifications

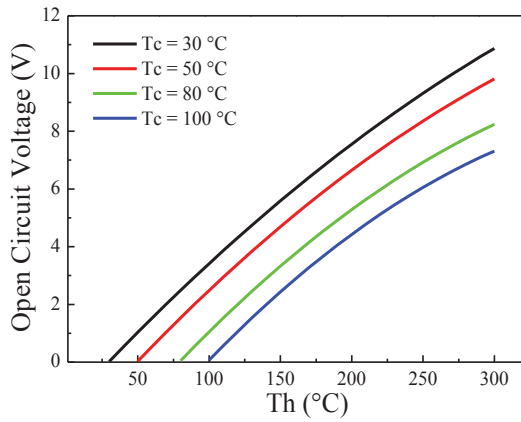
Hot Side Temperature (°C)	300
Cold Side Temperature (°C)	30
Open Circuit Voltage (V)	10.8
Matched Load Resistance (ohms)	5.4
Matched load output voltage (V)	5.4
Matched load output current (A)	1.0
Matched load output power (W)	5.4
Heat flow across the module(W)	≈ 96
Heat flow density(W cm ⁻²)	≈ 10.7
AC Resistance (ohms) Measured under 27 °C at 1000 Hz	2.8 ~ 4.0

Module Efficiency

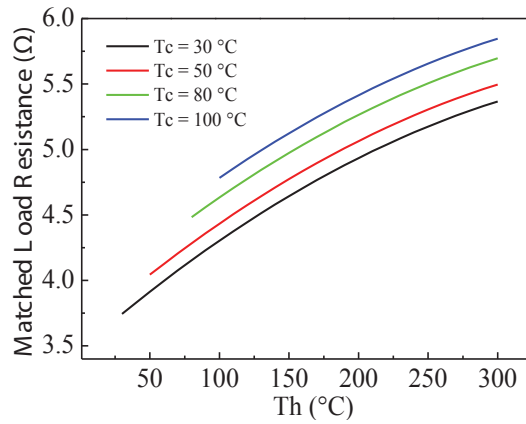


Note: Conversion rate = Matched load output power/Heat flow through the module

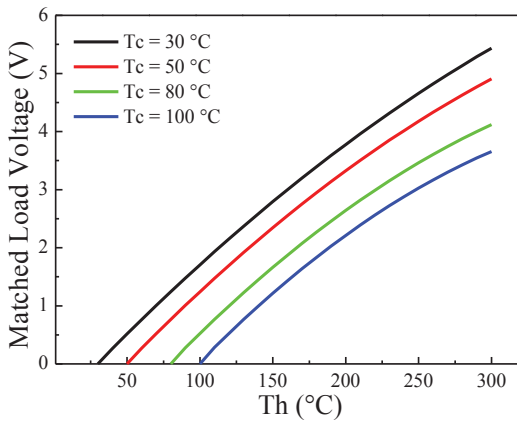
Performance



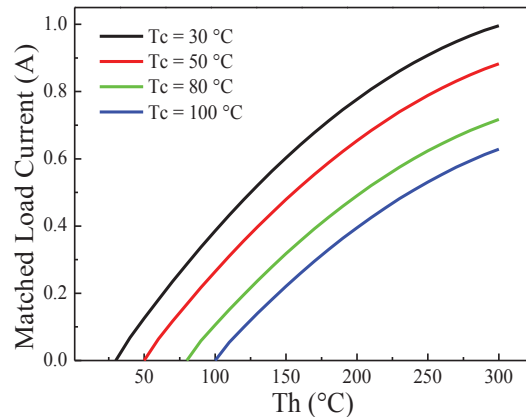
The chart for open circuit voltage Vs T_h under various T_c



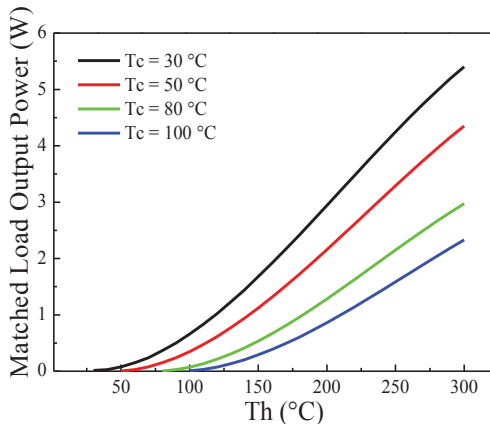
The chart for matched load resistance Vs T_h under various T_c



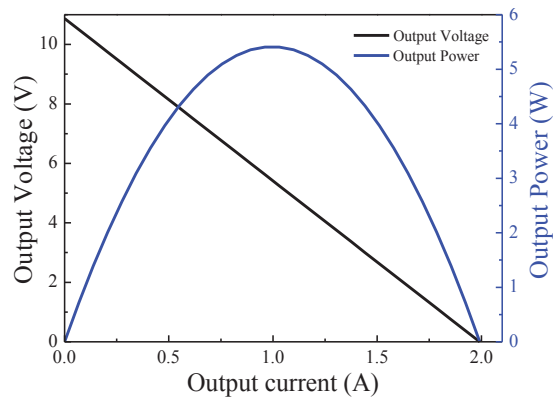
The chart for matched load voltage Vs T_h under various T_c



The chart for matched load current 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 $T_h=300$ °C and $T_c=30$ °C

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Specifications subject to change without notice. Nov, 2014 - Rev 1.0

Dimensions

