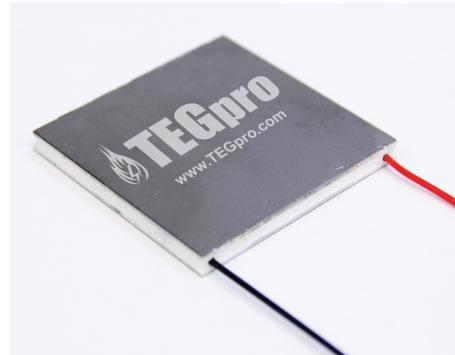


## Product Overview

Our TEG power module is specifically designed and manufactured to convert high temperature heat sources directly into electricity. The Bi-Te based TEG power modules can operate at temperatures as high as 230 °C continuously. The module will generate DC voltage if there is a temperature difference across the module. Power is generated as the temperature difference across the module increases. The efficiency of the module will also increase as well. Thermally conductive graphite sheets have been applied to both sides of the ceramic plates to provide low contact thermal resistance. Therefore you do not need to apply thermal grease or other heat transfer compounds when you install the module. The graphite sheet works very well in high temperatures.

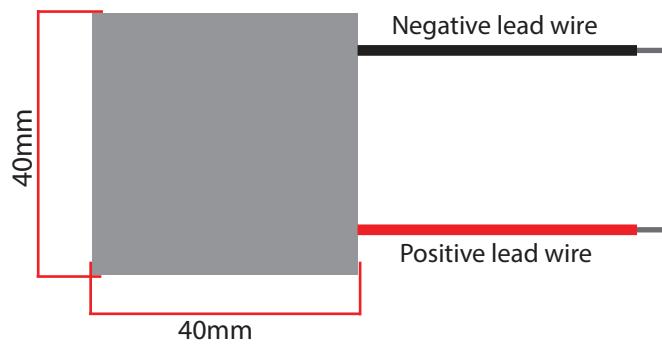


The Tegpro 1 Watt Low Temperature Thermoelectric Module is ideal for body heat recovery & hydronic waste heat recovery applications

## Specifications

Hot Side Temperature	100 °C
Cold Side Temperature	20 °C
Open Circuit Voltage (V)	4.0
Matched Load Resistance (ohms)	3.25
Matched load output voltage (V)	2.6
Matched load output current (A)	0.8
Matched load output power (W)	0.84
Heat flow across the module (W)	26
Heat flow density(W cm <sup>-2</sup> )	≈ 7

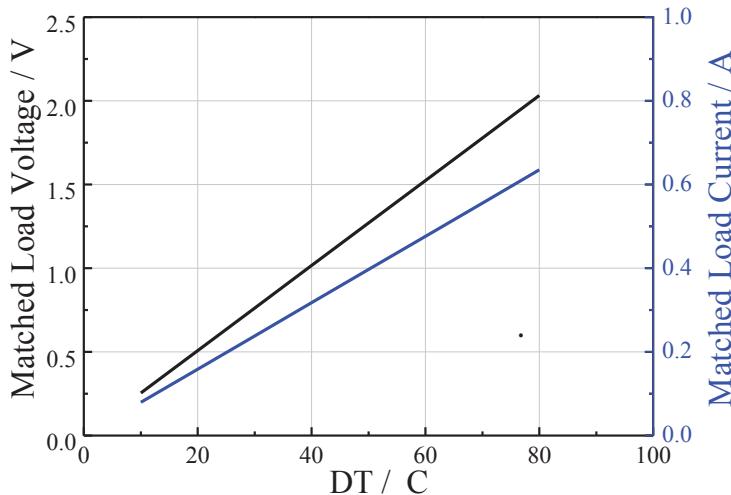
## Geometric Characteristics



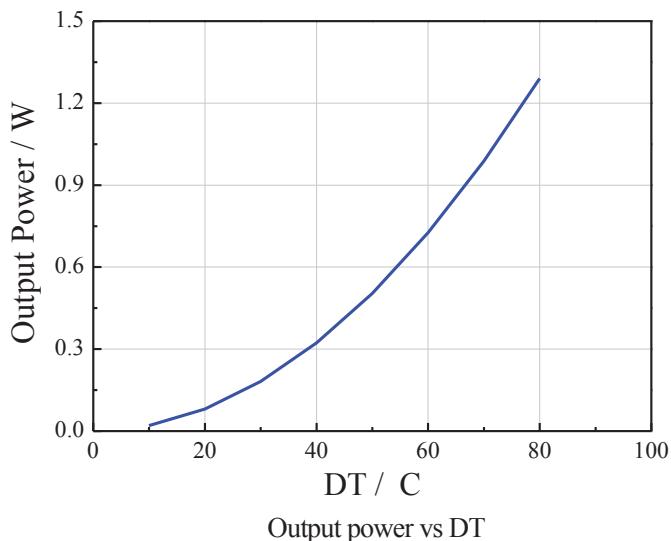
Hot side attached to heat source

Cold Side Attached to Heat Sink  
for Heat Dissipation

### Performance Curves of TE-MOD-1W2V-40S



Matched load current and matched load voltage vs DT



Output power vs DT

Note:

Module is rated for 100° C

©2016 TEGpro www.tegpro.com.  
 Specifications subject to change without notice. Nov, 2016 - Rev 1.0