

Product Overview

The MicroTEG is a highly efficient, compact solution for powering a variety of loads from Thermoelectric Generator (TEG). MicroTEG line of products includes: standard, high, and ultra-high output suiting the needs of most low power applications to include: microprocessors, LEDs, fans, battery chargers, and much more. A simple switching circuit is employed to boost voltages as low as 800mV to 8V at output currents as high as 500mA. This driver is the ideal solution for a plethora of TEG designs

The standard offering is a 0.45"L X 0.3"W X 0.26"H encapsulated MicroTEG . Custom sizes can be created to meet customers' requirements; please contact TEGpro for more information. The MicroTEG is supplied with 24 AWG 6" colored leads (red Vin+, black Vin-, orange Vout+, and green Vout-).



MicroTEG

Features

- **Low Cost:** The MicroTEG is a compact, low cost solution for providing power to loads with voltage in excess of the input voltage.
- **Safety & Reliability:** The MicroTEG is encapsulated by an insulating epoxy and is resistant to harsh environments and moisture.
- **Small Size:** The MicroTEG is ideal for applications where size matters. Small size = more applications!

Typical Application

- Wireless Sensors
- Battery Chargers
- LEDs
- Waste heat harvesting
- Camp Lights
- Arduinos
- Fans
- Microprocessors
- And much more.

Specifications

Input Voltage	800 mV _{DC}
Output Current, Standard	350mA
Output Current, High	400mA
Output Current, Ultra High	500mA
Operating Temperature	-40+85°C
Storage Temperature	-40+125°C

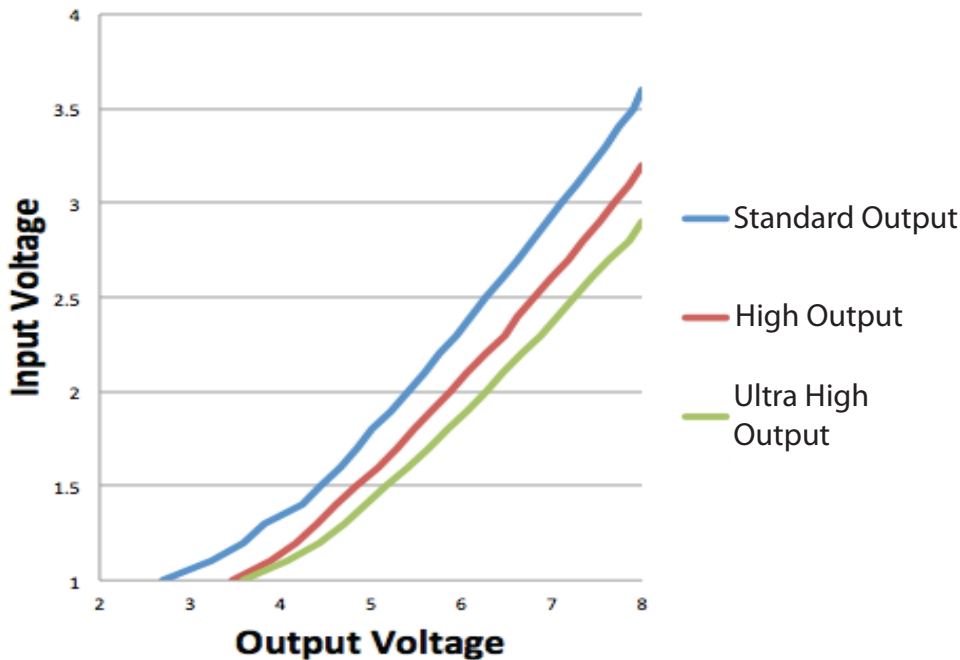
Absolute Maximum Ratings

Input Voltage.....	3.0V _{DC}
Output Voltage.....	8.0V _{DC}
Output Power.....	1.5W

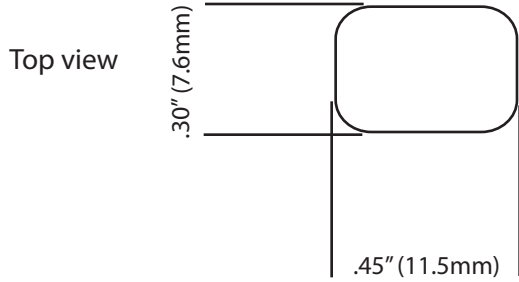
Typical Characteristics

Efficiency.....	80%
Input Voltage Minimum.....	0.8V _{DC}

Output Curves



Dimensions



Part Numbers	
HVI-M-350-L	MicroTEG Standard
HVI-M-400-L	MicroTEG High
HVI-M-500-L	MicroTEG Ultra High