

eTEG™ HV56 Power Generator Evaluation Kit

V.5

eTEG HV56 Evaluation Kit

Description:

The eTEG HV56 Evaluation Kit is an easy-to-use, self-contained kit for conducting desktop demonstrations of Nextreme's HV56 TEG device.

The evaluation kit consists of the following:

- HV56 TEG
- Thick film heater
- Heat sink / fan assembly
- Two type K thermocouples
- 12 Vdc transformer for the fan

To conduct testing, the following instrumentation is recommended:

- Power supply (minimum 20V / 1A)
- Digital multi-meter
- Two channel, type K thermocouple readout



Performance Values (typical):

Typical Performance Specifications:			
Parameter		$\Delta T = 30^{\circ}\text{C}$	$\Delta T = 60^{\circ}\text{C}$
Output Power (to 8 Ω resistor)	P_{out}	25 mW	85 mW
Open Circuit Voltage	V_{oc}	925 mV	1850 mV
Internal Resistance	R_{int}	9.1 Ω	12.3 Ω

Definitions:

- P_{out} The output power of the thermoelectric generator measured across a load resistor
- V_{oc} The open circuit voltage of the device
- R_{int} Internal resistance of TEG

eTEG Evaluation Kit Data Sheet

