

eTEG™ HV56 Power Generator Evaluation Kit

Preliminary Data Sheet

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:			$\Delta T = 30^{\circ}\text{C}$	$\Delta T = 60^{\circ}\text{C}$
Parameter				
Output Power (to 10 Ω resistor)	P_{out}		25 mW	88 mW
Open Circuit Voltage	V_{oc}		950 mV	1870 mV
Internal Resistance	R_{int}		9.2 Ω	10.2 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

Contact info@Nextreme.com for more information
Preliminary – Subject to change without notice

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