



Evaluation Kit EVA-00600-00

Product Description

microGen's Evaluation Kit was designed to efficiently assess vibrational energy harvesting for the user. The piezoelectric AC Power Cell pairs with either of two Power Management Boards, which rectify and condition the harvested power. The Power Management Boards are configurable over a range of voltage outputs, and provide storage capacitance to meet the needs of the application.

The Diagnostic Board includes a Current Sense Circuit that enables the user to quickly characterize the power consumption of low-power electronic devices. The circuit uses a Texas Instruments INA326 Instrumentation Amplifier, and has the flexibility to view different current draw ranges via jumpers and an external oscilloscope (not provided). In addition, the Diagnostic Board contains a Blinking LED Test Circuit that can be used as a direct load for the AC Power Cell, or indirectly as a load for the Current Sense Circuit.

For set up and detailed instructions please reference the [User's Guide](#).

Product Features

- AC Power Cell (2 provided)
 - Resonant frequency
 - o 500 to 700 Hz
 - Harvester capacitance
 - o 1.8 - 2.1 nF
 - 200 μ Watt maximum average AC power generation
- LTC3330 power management board
 - Variable output voltage
 - o 1.8 – 5 Volts
 - 500 μ F storage capacitance
- Torex LDO power management board
 - Fixed output voltage
 - o 3.3 Volts
 - 500 μ F storage capacitance
- Diagnostic Board
 - 9 Volt Supply Voltage
 - Low side 10 Ohm 0.125 Watt sense resistor
 - Blinking LED circuit
 - o 2 – 8 Volt input
- Molex PicoBlade™
 - Provides quick connections between modules