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THERMOELECTRIC CONVERSION SYSTEMS

Bridging the gap from device to system:

Electronics and test solutions for

thermoelectric power generation and cooling

Energy Harvesting Network

London, 11-05-2016

Thermoelectric Power Generation:

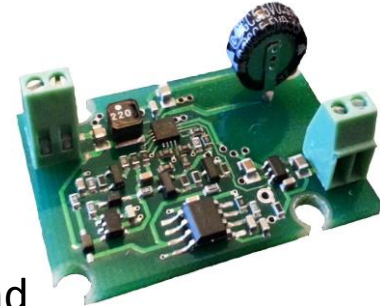
KM2 Series

- High Electrical and MPPT efficiency
- Battery Interface
- 63 W, 2-50 V rating



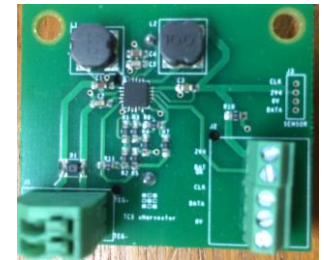
AM2 Series

- 97% MPPT, every second
- Integrated 5V supercap and LDO
- 400 mW, 550 mA max input
- V_{in} from 80 mV to 5 V
- Also available for solar cells



AM3 Series

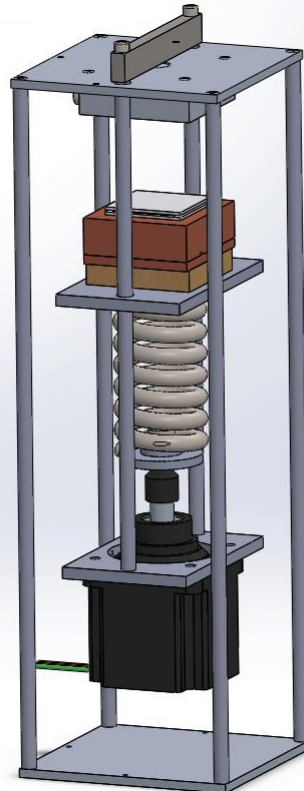
- $20 \text{ mV} < V_{in} < 0.5 \text{ V}$
- 2.2 V LDO output



Test Solutions

Test Fixtures for Thermoelectric Generators and Heat Pumps

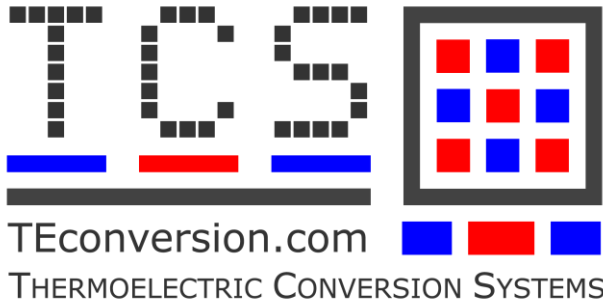
- Clamping force from 10 to 5000 N
- Hot-side temperature up to 700°C
- Water-cooled cold side
- Devices up to 80 mm x 80 mm
- Fully automatic
- Single or multi-channel
- Constant-power or constant temperature difference



RO3 Series: Immediate TEG or PV I-V Curve Plotter and MPPT Load

- Obtains the I-V curve instantaneously
- Dynamic tracking at-load (MPPT)
- Constant-voltage mode





Services

- **Customisation** of any converter, controller and test fixture
- **Advise** on mechanical assembly and interface materials
- **In-house** test and characterisation
- We are able to participate as a Partner or Subcontractor in large **R&D** projects.