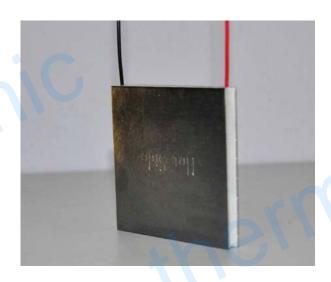
Specification of Thermoelectric Module TEP1-24156-2.4

Description

The power module is designed and manufactured by our unique technology for converting heat source directly into electricity. The module is Bi-Te based thermoelectric module that can work at the temperature of as high as 330 °C (626 °F) heat source continuously and up to 400 °C (752 °F) intermittently. The thermoelectric module will generate DC electricity as long as there is a temperature difference across the module. The more power will be generated when the temperature difference across the module becomes larger, and the efficiency of converting heat energy into electricity will increase therefore. The module is stuck with the high thermal conductivity graphite sheet on its both sides of the ceramic plates to provide low contact thermal resistance, hence you do not need to apply thermal grease or other heat transfer compound when you install the module. The graphite sheet can work well in extremely high temperature.

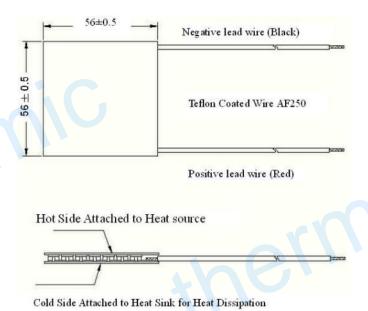
Patent NO.: ZL 2010 1 0193517.9



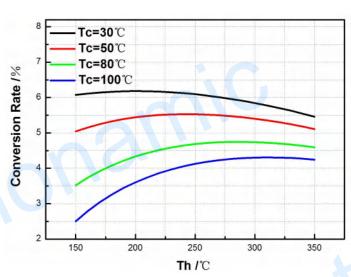
Specification of the Module

Hot Side Temperature (°C)	300
Cold Side Temperature (°C)	30
Open Circuit Voltage (V)	17.7
Matched Load Resistance (ohms)	4.4
Matched load output voltage (V)	8.8
Matched load output current (A)	2.0
Matched load output power (W)	17.6
Heat flow across the module (W)	≈ 301
Heat flow density (W cm ⁻²)	≈ 9.6
AC Resistance(ohms) Measured under 27 °C at 1000Hz	2.2 ~ 3.0

Geometric Characteristics Dimensions in millimeter



Conversion Rate of the modules Vs Th under various Tc



Noted: Conversion rate = Matched load output power/Heat flow through the module

Performance Curves of the Module TEP1-24156-2.4

