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for a Connected World

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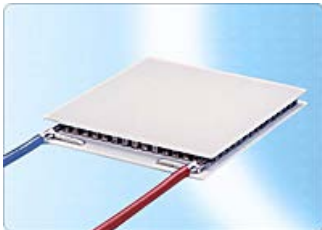
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UltraTEC™ (UT) Series - High Power Thermoelectric Modules

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The UltraTEC™ Series is a high heat pumping density thermoelectric module (TEM). The module is assembled with a large number of semiconductor couples to achieve a higher heat pumping capacity than standard single stage TEMs.

This product line is available in multiple configurations and is ideal for applications that require higher cooling capacities with limited surface area. Assembled with Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide ceramics, the UltraTEC™ Series is designed for higher current and larger heat-pumping applications.

For all UltraTEC™ Series modules, wire is stranded, 152 mm (6.0 in.) long or 200 mm (8.0 in.) and PVC insulated.

Applications

- Analytical Instrumentation
- Medical Diagnostics
- Photonics Laser Systems
- Electronic Enclosure Cooling
- Food & Beverage Cooling
- Chillers (Liquid Cooling)

Features

- High Heat Pump Density
- Precise Temperature Control
- Reliable Solid State Operation
- No Sound or Vibration
- DC Operation
- RoHS Compliant

Definitions:-

Imax: Input current resulting in greatest ΔT (ΔT_{max}) [Amps]

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Qmax: Maximum amount of heat that an be absorbed at cold face (occurs at I = I_{max}, ΔT = 0°C) [Watts]

TH: Temperature of the TEC hot face during operation [°C]

ΔTmax: Maximum temperature difference a TEC can achieve (occurs at I = I_{max}, Q_c = 0) [°C]

Vmax: Voltage at ΔT (ΔT_{max}) [Volts]

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Item #	Qmax (TH = 25°C)	I _{max} (TH = 25°C)	V _{max} (TH = 25°C)	ΔT _{max} (TH = 25°C)	Dimension A	Dimension B
UT8.12.F2.2525.TA.W6	69 watts	7.9 A	14.4 V	69 °C	25 mm	24 mm
UT8.12.F2.3030.TA.W6	69 watts	7.9 A	14.4 V	69 °C	30 mm	30 mm
UT11.12.F2.3030.TA.W6	95 watts	11.0 A	14.4 V	69 °C	30 mm	30 mm
UT15.12.F2.4040.TA.W6	126 watts	14.6 A	14.4 V	69 °C	40 mm	40 mm
UT8.200.F2.4040.TA.W6	127.5 watts	8.5 A	24.9 V	71 °C	40 mm	40 mm
UT8.288.F2.5252.TA.W6	182.6 watts	8.5 A	35.9 V	71 °C	52.0 mm	52.0 mm
UT15.200.F2.4040.TA.W6	236.6 watts	15.4 A	25.0 V	68 °C	40 mm	40 mm
UT15.288.F2.5252.TA.W6	340.6 watts	15.4 A	36.0 V	68 °C	52.0 mm	52.0 mm
UT6.19.F1.4040.TA.W6	93 watts	6.0 A	24.6 V	74 °C	40 mm	40 mm
UT9.28.F2.4040.TA.W6	206 watts	9.2 A	36.7 V	68 °C	40 mm	40 mm
UT15.24.F2.5252.TA.W6	288 watts	15.1 A	30.8 V	70 °C	52 mm	52 mm
UT6.24.F1.5555.TA.W6	113 watts	6.0 A	29.8 V	74 °C	55 mm	55 mm
UT8.24.F1.5555.TA.W6	153 watts	8.5 A	29.8 V	72 °C	55 mm	55 mm
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