Thermo Generation Module

Features

- ◆High Performance Type: With the world's top conversion efficiency and high output power density, the power generation equipment with this module can be reduced in size.
- ◆Multi Purpose Type: Not only economical but highly durable product can be realized with this skeleton structure module.
- ◆Micro Generation Module: The module is made with KELK's proprietary high performance material and high density element mount technology.

Specifications

		MAX Temperature	Electric Resistance(27℃)	Thermal Resistance(27℃)	Dimension
Thermo Generation Module	High Performance Type < KTGM161-18 >	280℃	1.15Ω	1.043℃/W	51.5×55×4.4mm
	Multi Purpose Type <ktgm199-2></ktgm199-2>	200℃	2.16Ω	1.066℃/W	48×56.5×1.36mm
Micro Generation Module < KTGS066A00 >		80℃	7Ω	29℃/W	7.6×7.2×1.3mm

Performance 25 Cold-side Temperature: 30℃ Output Power 20 <High Performance> KTGM161-18 3 15 Eff for waste heat recovery 10 of industrial plant or 2% 5 vehicle engine 0 0% 150 250 300 Hot-side temperature (°C) 8 Cold-side Temperature: 50℃ 7 <Multi Purpose> Cold-side Temperature : 70℃ Output Power (W) 6 KTGM199-2 5 for independent power 4 supply when there are 3 heat source 2 1 0 0 50 100 200 150 Micro Hot-side Temperature (°C) **Thermo Generation Module** 300 3.0 KTGS066A00 250 for Energy Harvesting 2.0 (mV) 150 ∆T=7.5°C 1.5 Voltage <Schematic of application > 100 1.0 Temperature difference **Heat Sink** 50 0.5 Low voltage 0 0.0 Transmitter DC/DC Converter 20 40 Capacitor Sensor

Power manager

*The module is used with voltage step-up converter

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are typical values.

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■ The specifications and performance