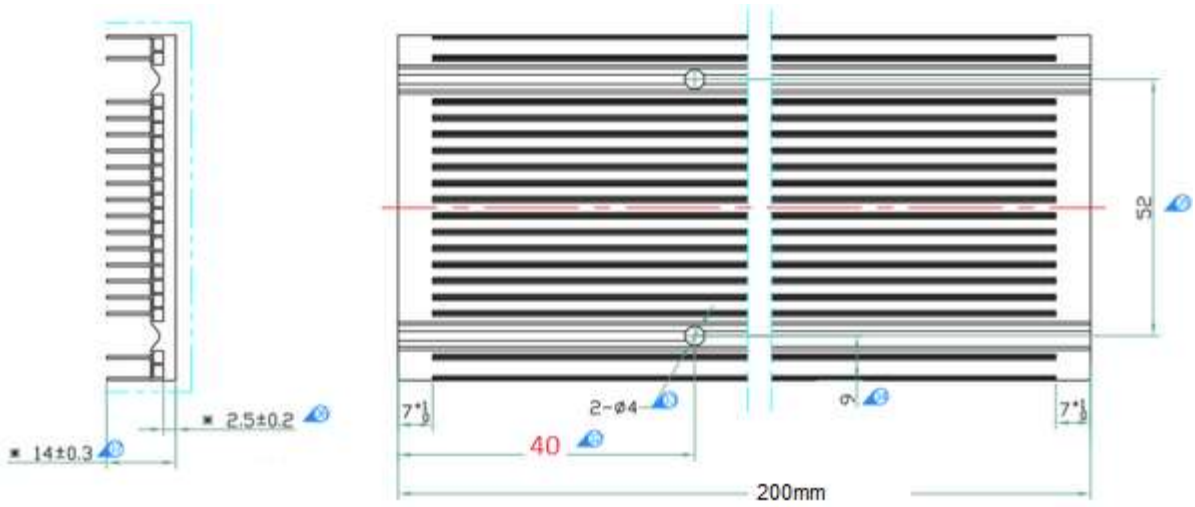
LOW DT applications for exceptional power generation

IoT Scavenger Technology

Tecteg Mfr. is continually developing low scavenging expertise in the wearable and IoT scavenger market for industrial sensor power. We have developed an ultra effective heat pipe that incorporates multiple features that give it an **ultra high thermally conductive profile**, while reducing size and weight issues, so concerning to end users in the adaptation of TEG technology for **IoT applications**. It's patent pending design allows for significant power generation when coupled with our **TEG2-126LDT** scavenger module. The module is extremely effective and producing voltage at sub par temperature differentials, but without critical cold side removal technology, many users find that they don't have the tools capable in real world applications to achieve effective power production. Therefore, Tecteg Mfr. offers a custom heat pipe, which adds significant de-risking for critical very low DT application.

All dimensions in mm



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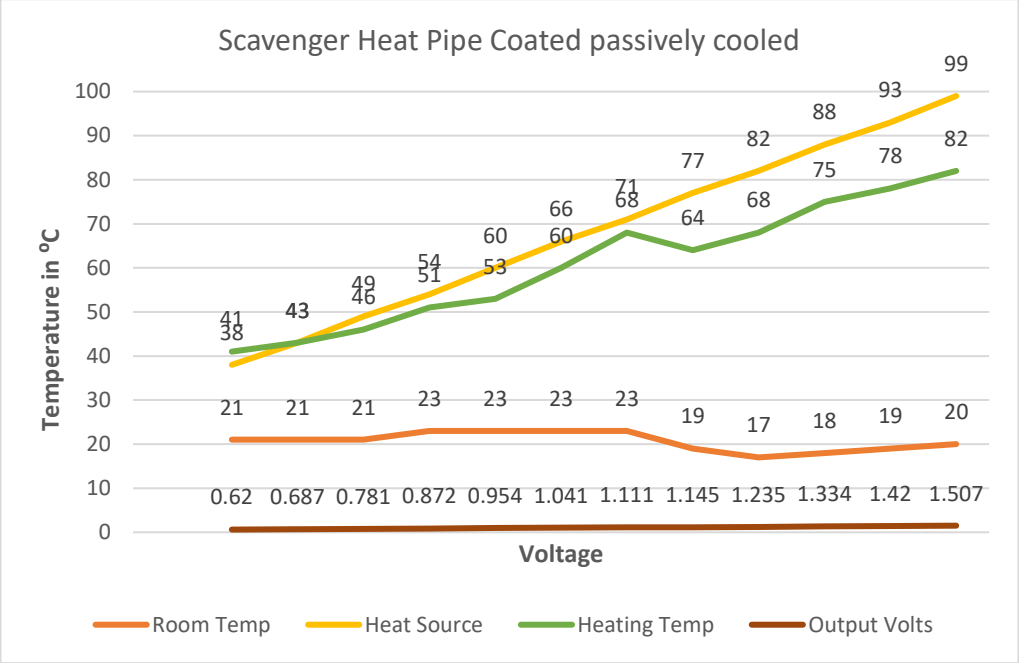

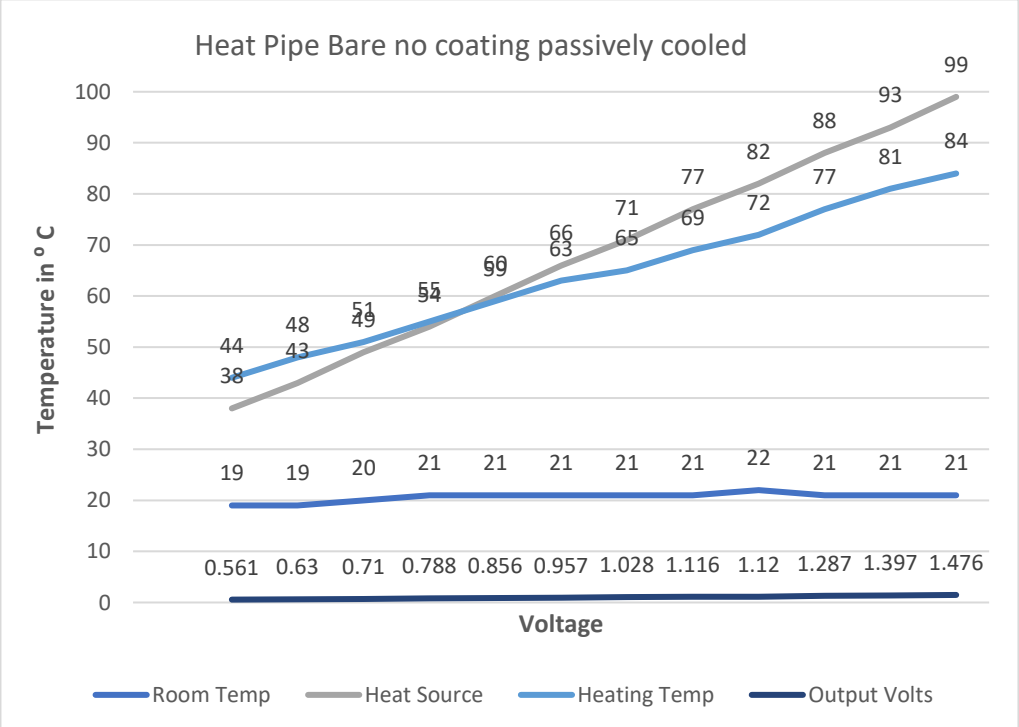

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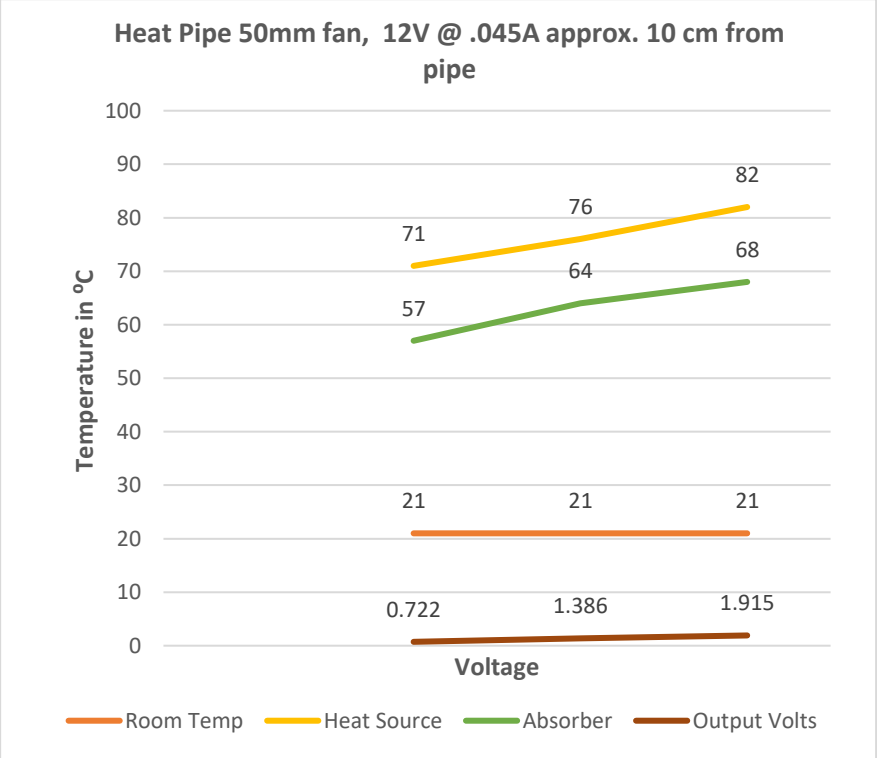

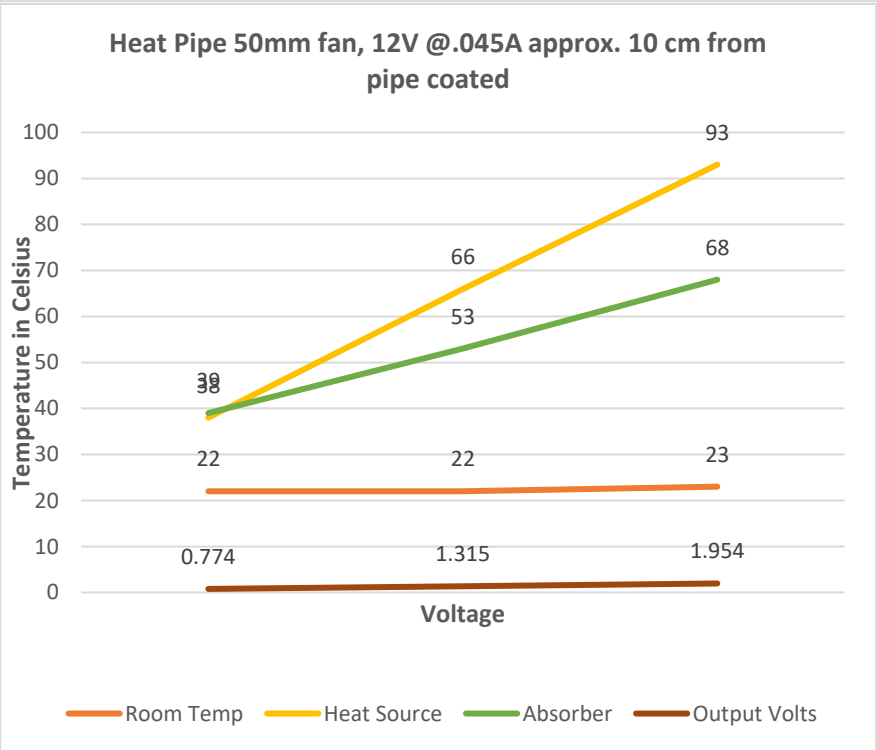

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 Note: TEG2-126LDT and heat pipe! Hot side not included	Our heat pipes have a significant advantage over standard heat sink designs. The coatings have resistance values in the .1 to .3 Ohm range. To compare we standard heat sinks, size 2.5” x 2.5” x 2.75” tall, 14 serrated fins ½” base with the same fan above. Output .652V Ambient 21°C Process heat 66°C Absorber Temp 50°C **With NO FAN** The output with our heat pipe is **1.041V** with same temperatures! **160% better** performance with forced Air! **1.386V** **213% better** performance