

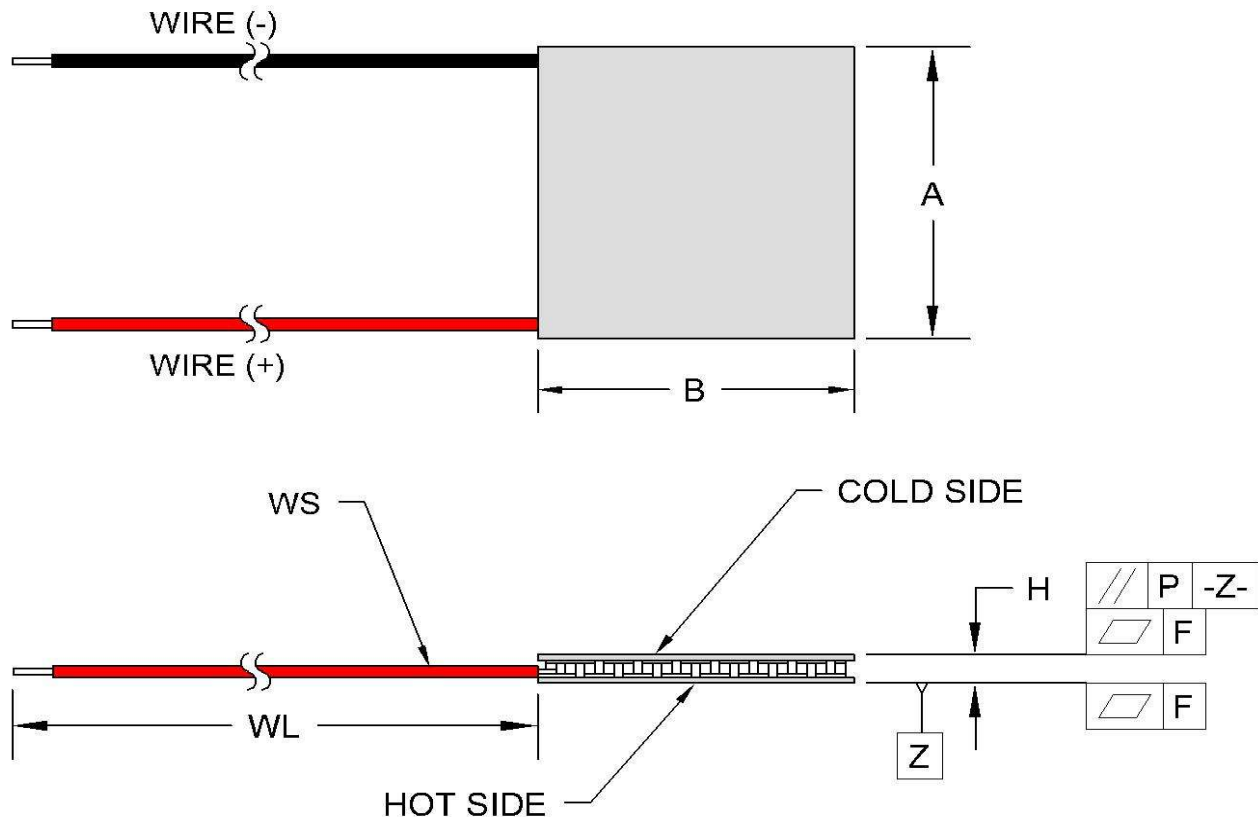
**HP-199-1.4-0.8
Thermoelectric Module
(Peltier Module)
Specifications**

	Material Specifications (27 °C hot side temperature)	Material Specifications (50 °C hot side temperature)
Vmax (V)	24.6	27.3
I _{max} (A)	11.3	11.3
Q _{max} (W)	172.0	188.7
DT _{max} (°C)	69	78
Operation temperature	-40 °C to +80 °C	

Module *material* specifications are nominal values based on the hot-side temperature indicated. Thermoelectric material parameter tolerance is +/-10%.

In no case should the module temperature be allowed to exceed its maximum operation/storage temperature.

Please review all product and technical information, *Thermoelectric Module Mounting Procedure*, parameter definitions, FAQ's, and ordering information posted on our website before purchasing or using this product.



Width, A (mm)	40 +0.5/-0.2
Width, B (mm)	40 +0.5/-0.2
Height, H (mm)	3.2 ±0.05
Flatness, F (mm)	0.02
Parallelism, P (mm)	0.03
Wire Size, WS (mm ²)	0.5
Wire Length, WL (mm)	120

Optional Features and Notes:

Add "P" to part number for sealing module with epoxy potting.

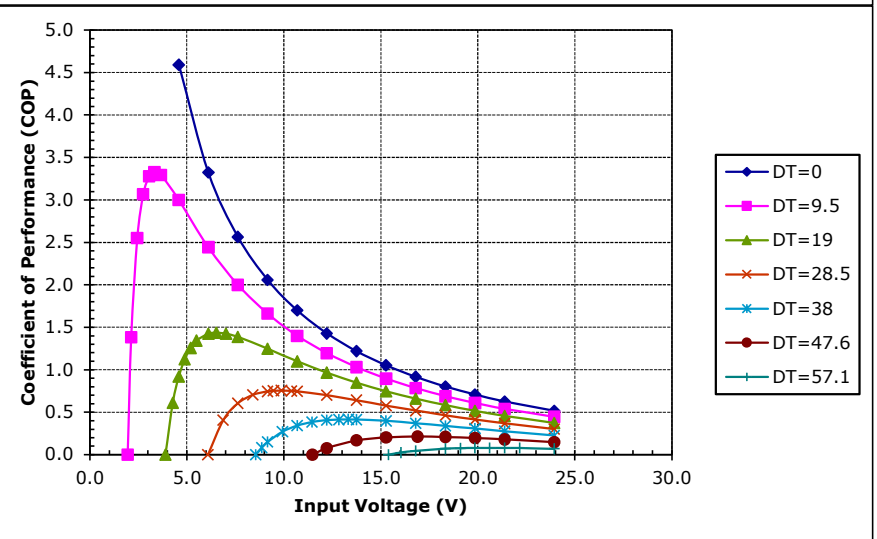
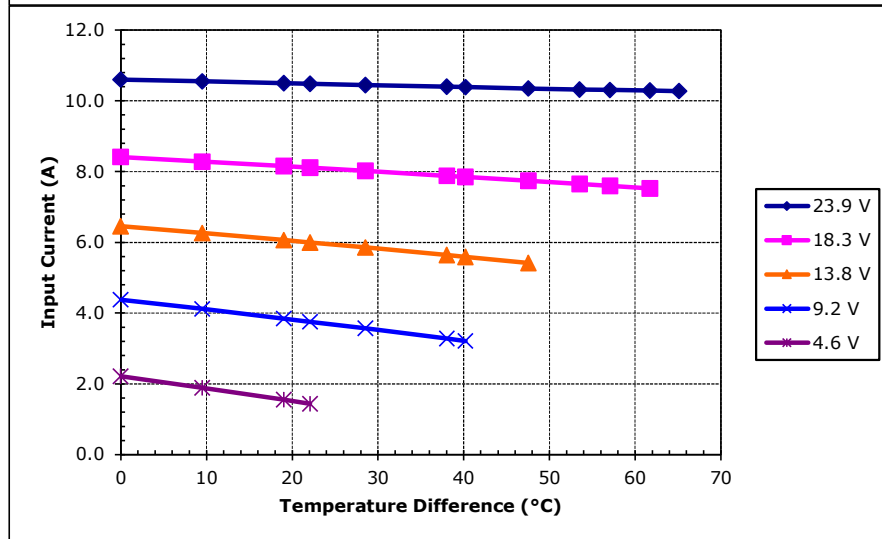
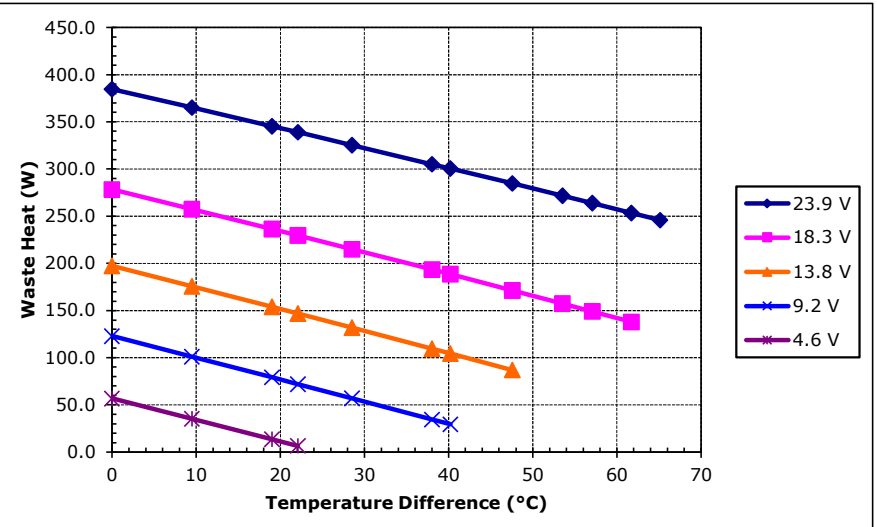
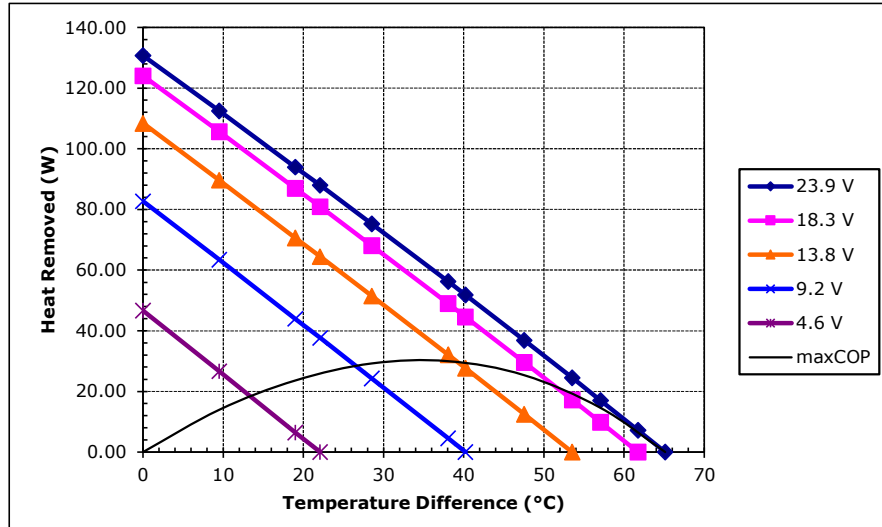
"A" and "B" dimensions could increase ~1 mm due to potting.

Performance graphs include thermal resistance of substrates.

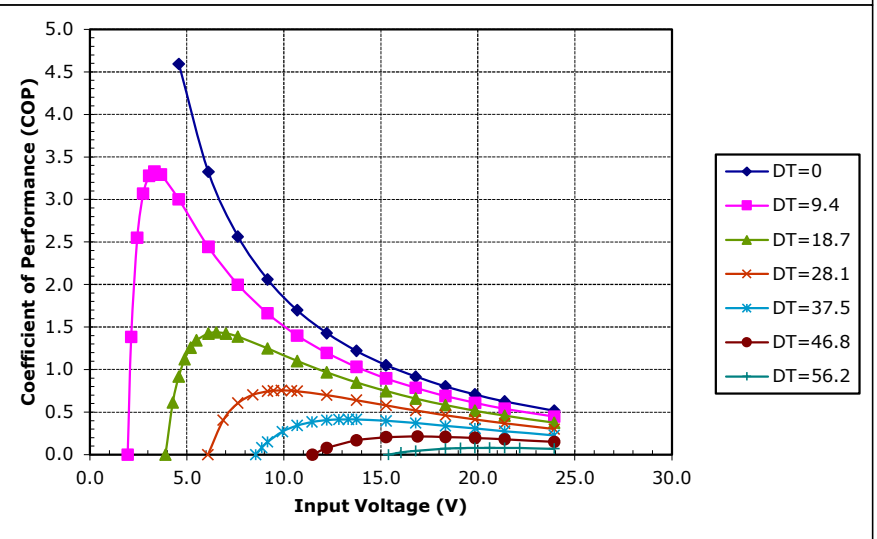
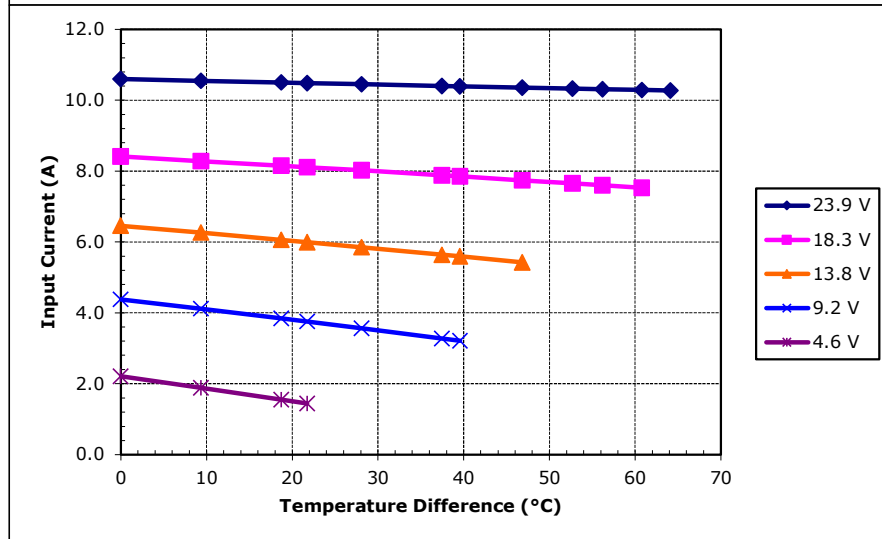
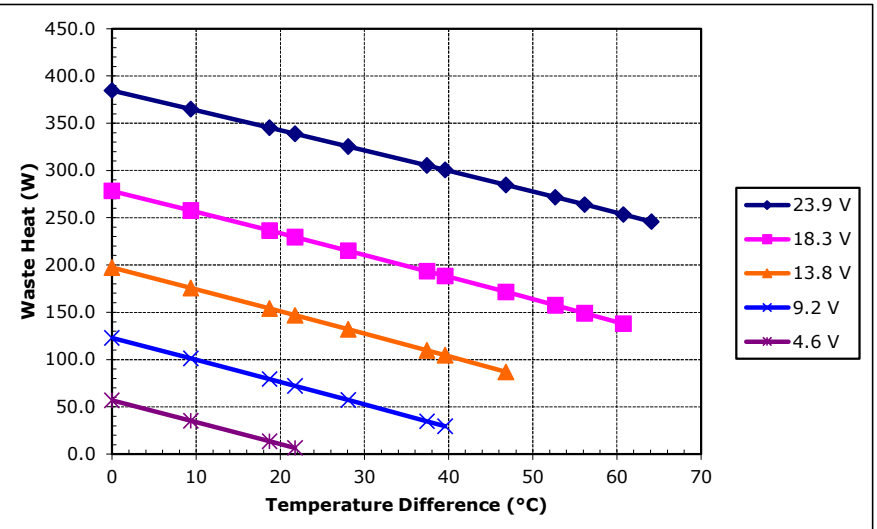
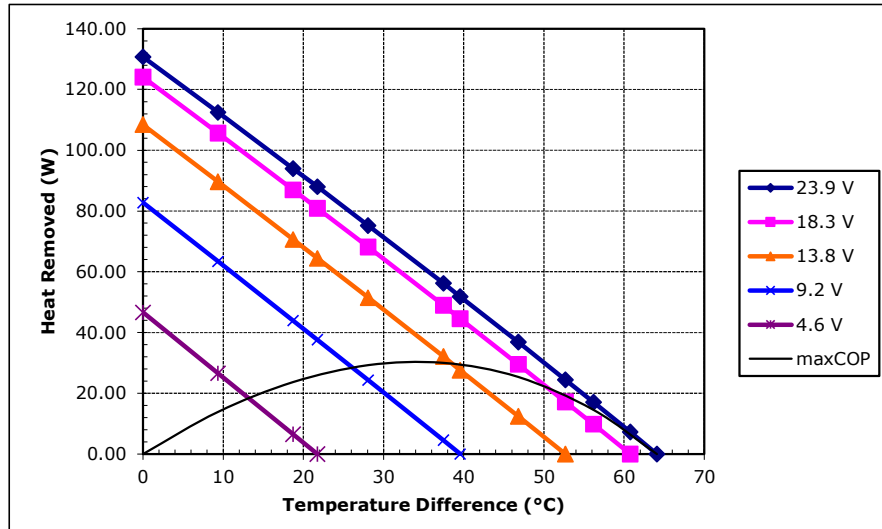
RoHS Compliant

TE TECHNOLOGY, INC.

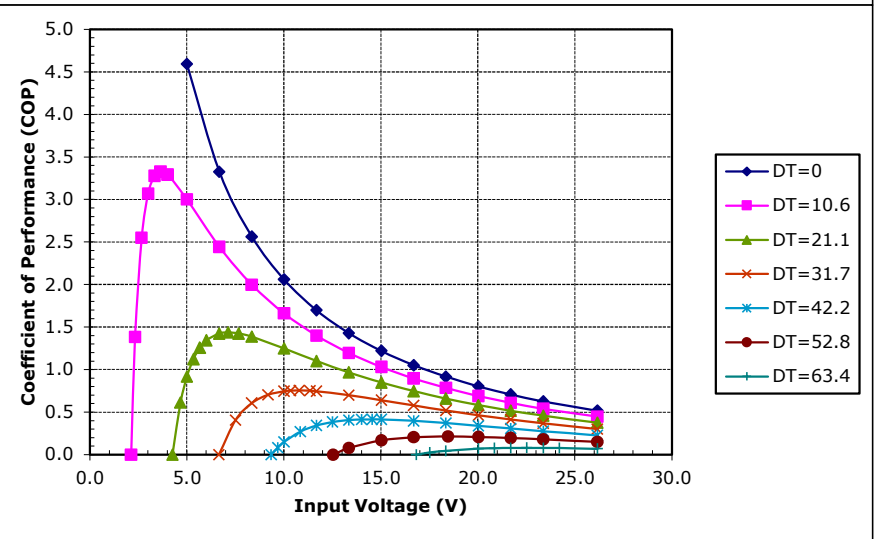
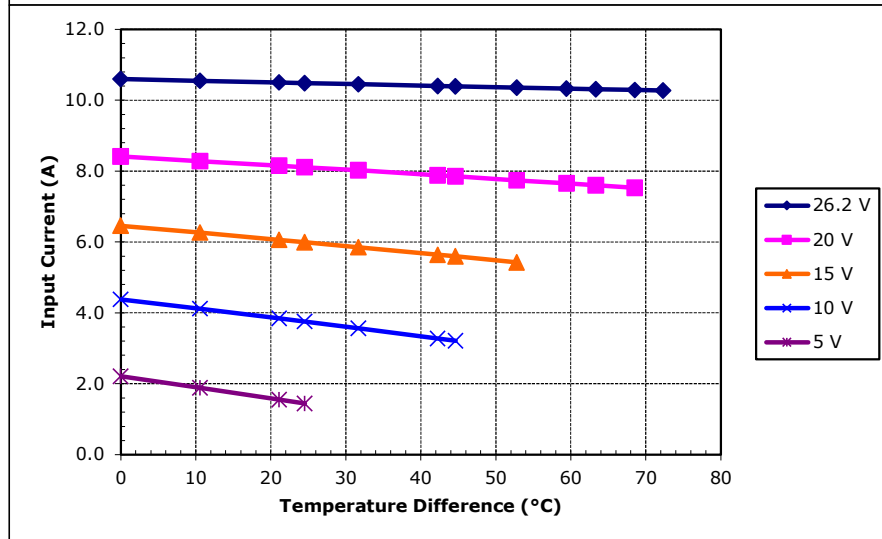
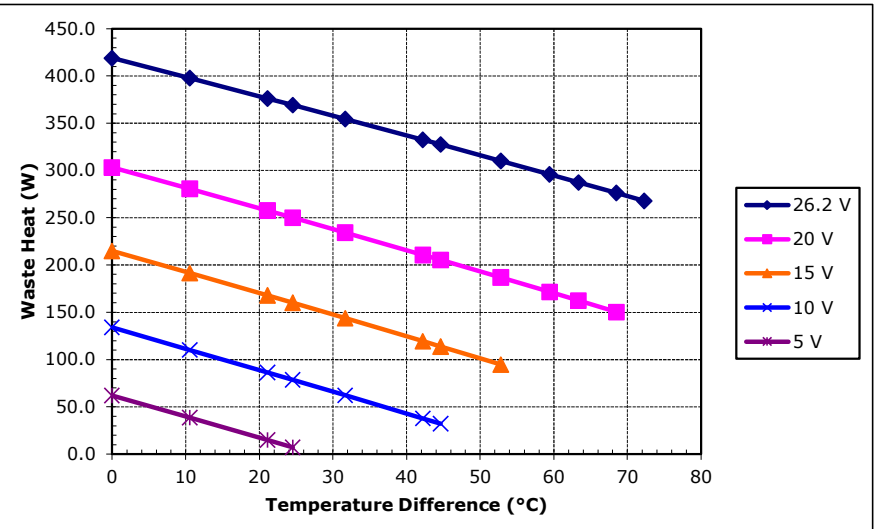
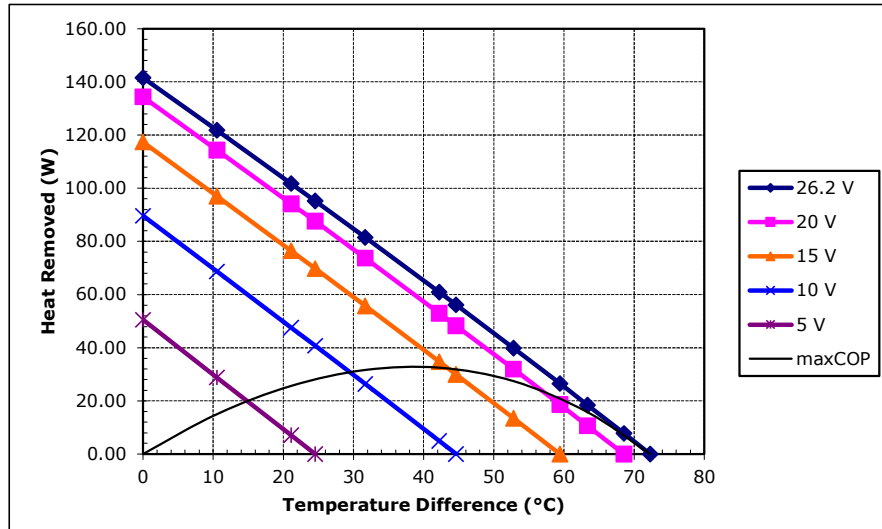
1590 Keane Drive, Traverse City, MI, 49696-8257 USA
PH: 231-929-3966 FAX: 231-929-4163 email: cool@tetech.com
Expert Engineering, Precision Manufacturing: *Quality Thermal Solutions Delivered*



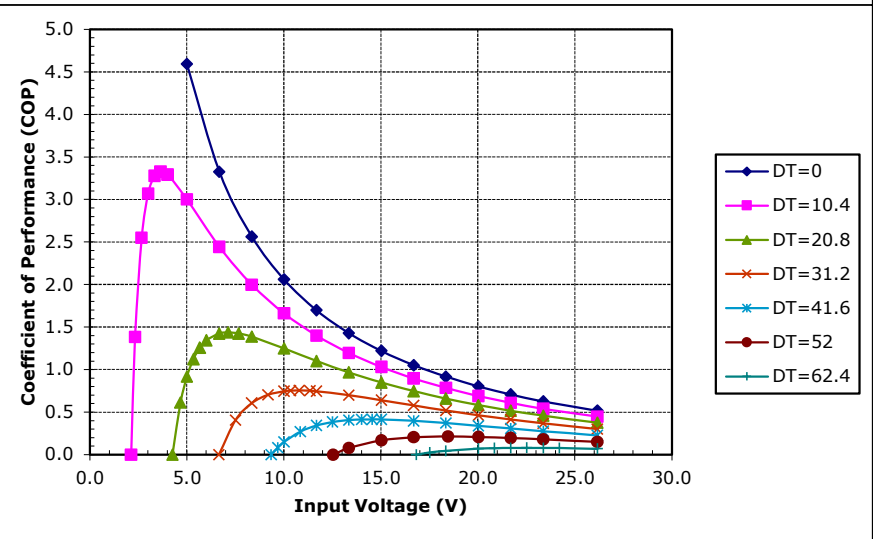
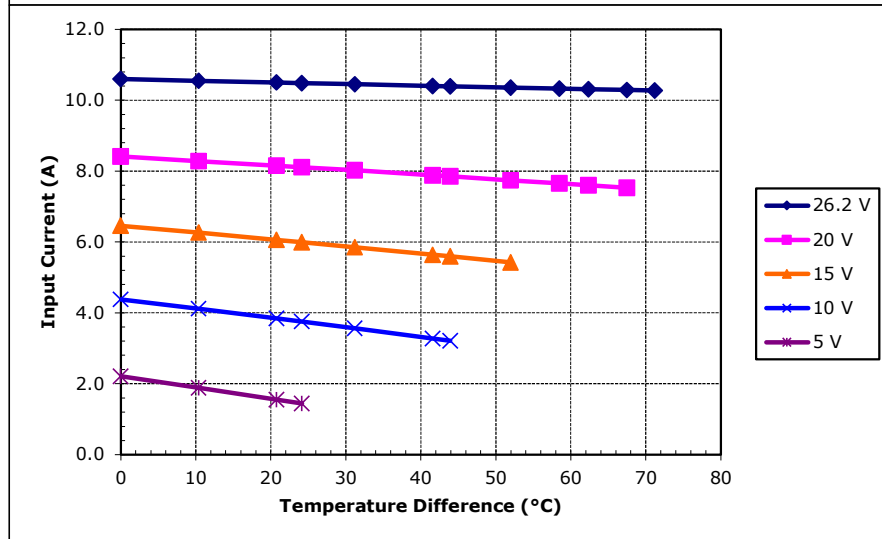
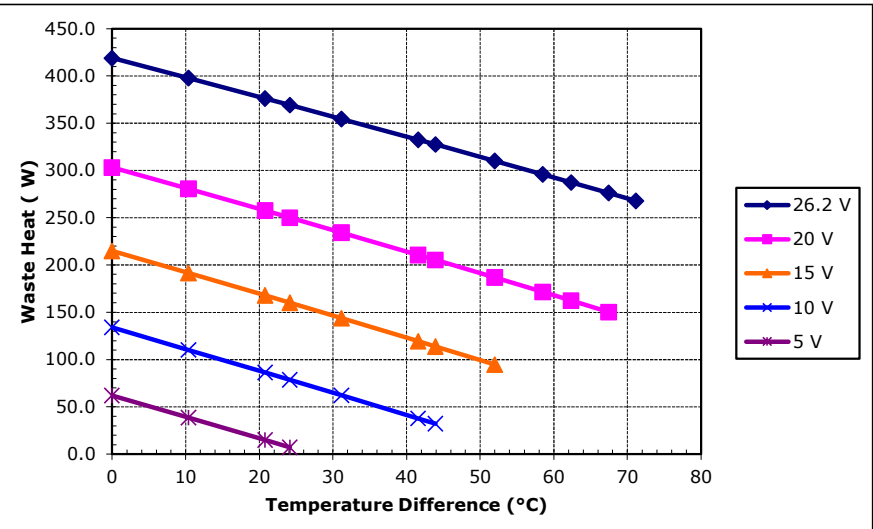
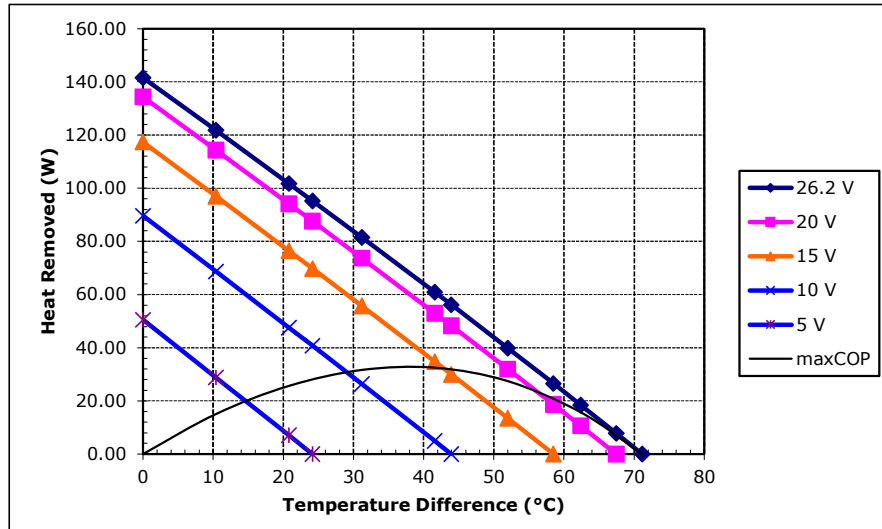
Unpotted HP-199-1.4-0.8 at a hot-side temperature of 30 °C



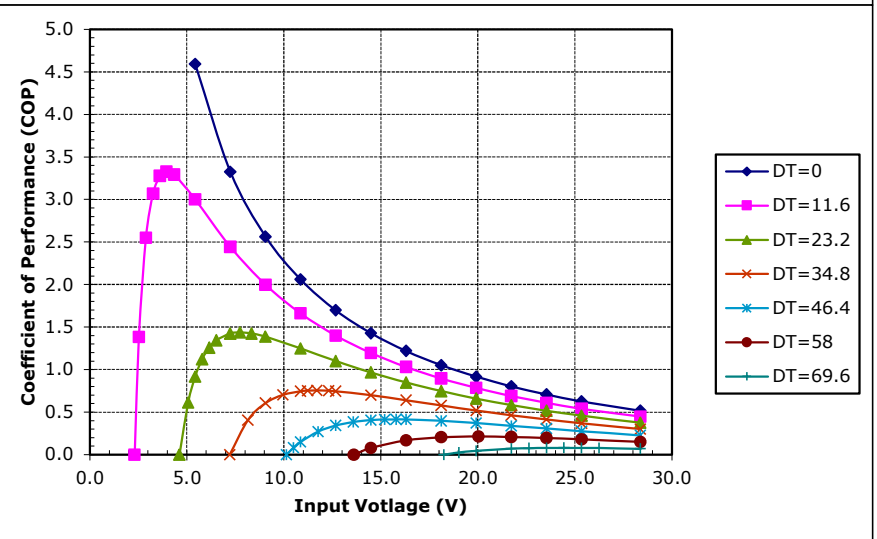
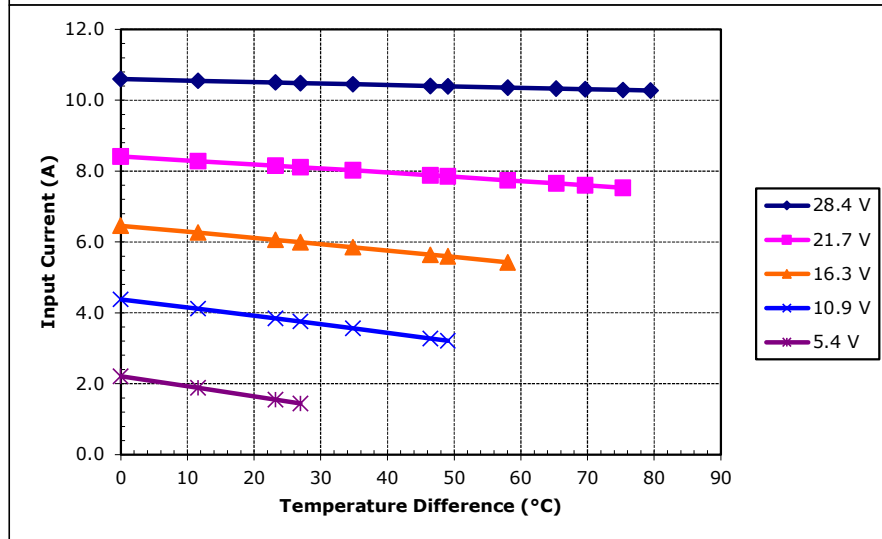
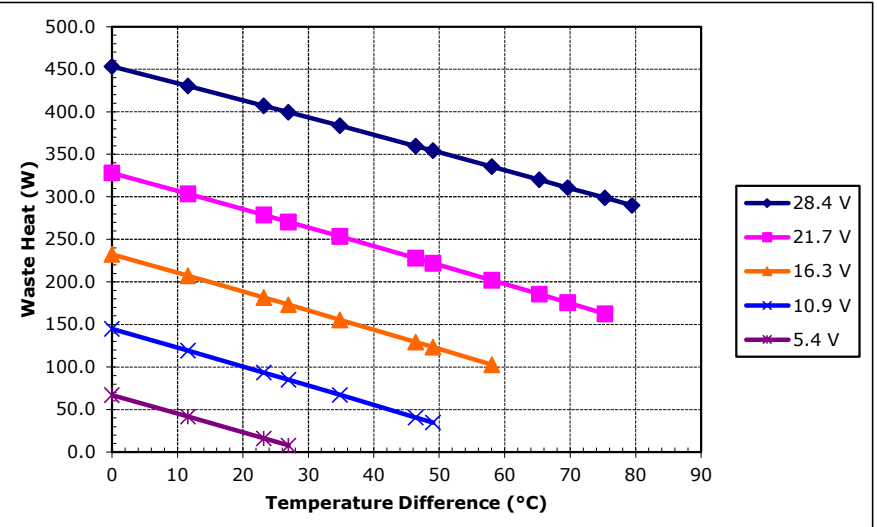
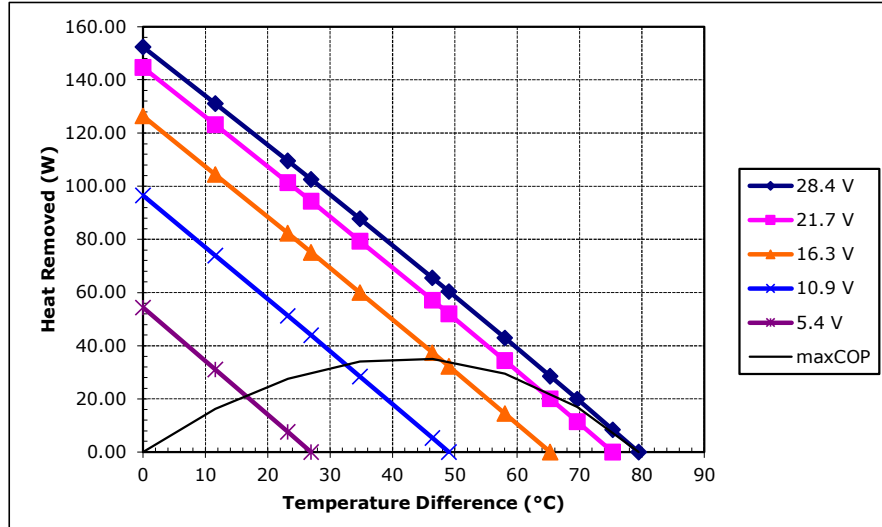
Potted HP-199-1.4-0.8 at a hot-side temperature of 30 °C



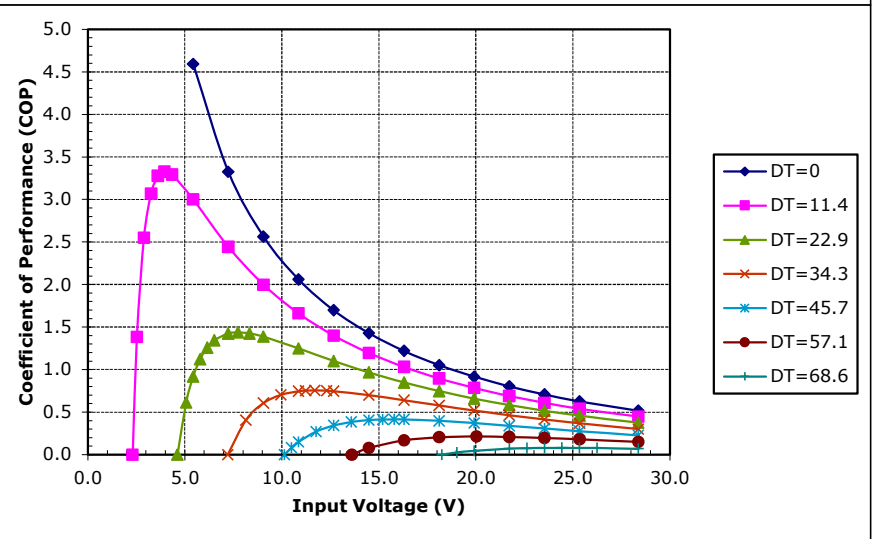
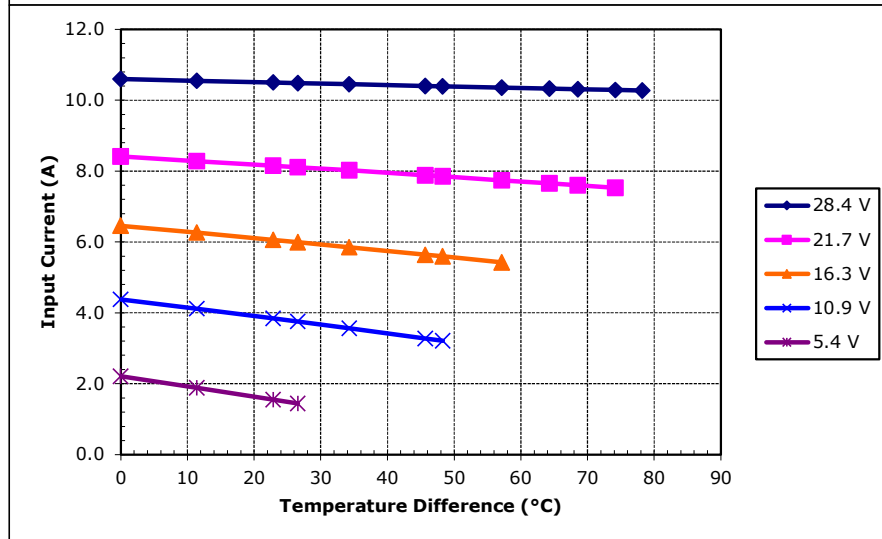
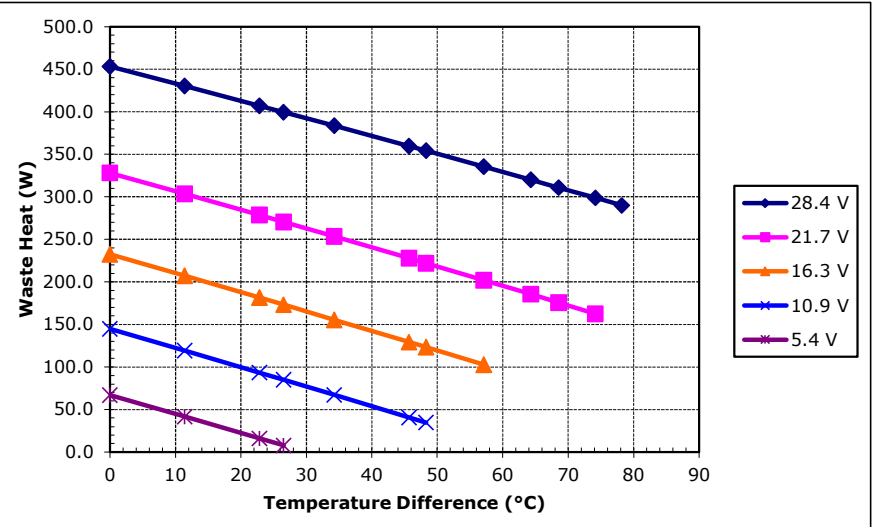
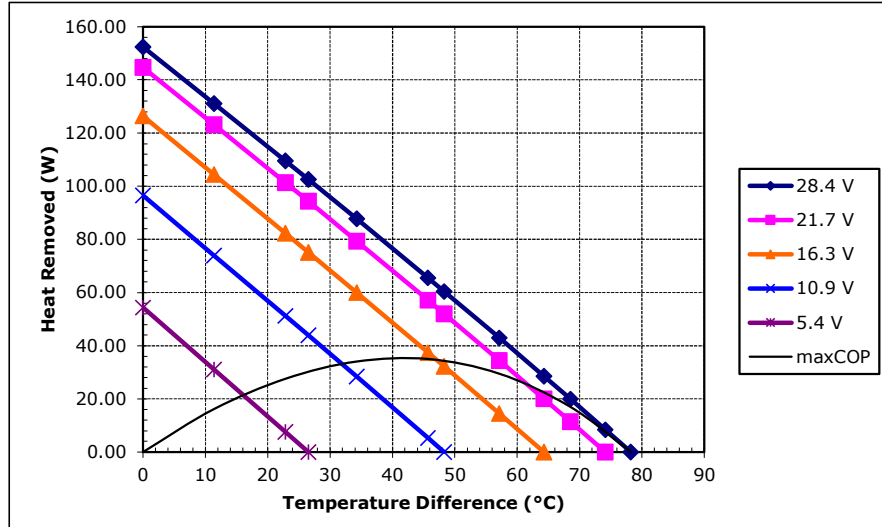
Unpotted HP-199-1.4-0.8 at a hot-side temperature of 50 °C



Potted HP-199-1.4-0.8 at a hot-side temperature of 50 °C



Unpotted HP-199-1.4-0.8 at a hot-side temperature of 70 °C



Potted HP-199-1.4-0.8 at a hot-side temperature of 70 °C