

SPECIFICATION OF GENERATING THERMOELECTRIC MODULE MARS-40



| <i>Operation parameters</i> | <i>Unit</i> | <i>Value</i> |
|--|-------------|----------------|
| Working temperature | °C | 500 |
| Assembly pressure (per 1 TGM S=1,1*10⁴ mm²) | H | 100 000 |
| Weight (with wires) | kg | 0,86 |

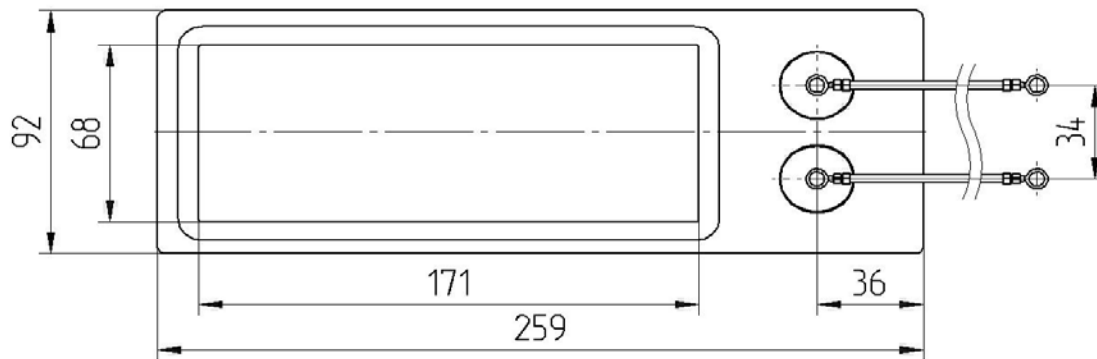
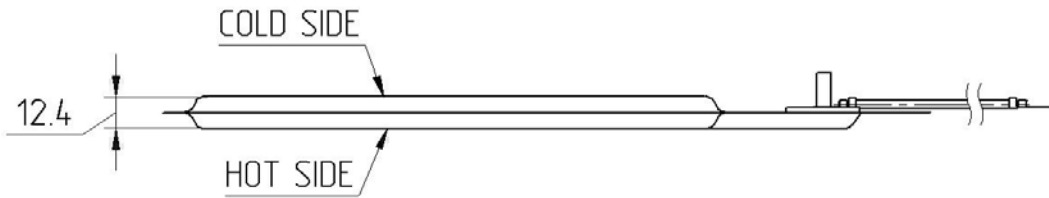
| <i>Thermoelectric parameters</i> | <i>Unit</i> | <i>Value</i> |
|---|-------------|--------------|
| Voltage $U_L (R_L=R_i)^*$ | Volts | 5,2 |
| Current $I_L (R_L=R_i)^*$ | Amps | 7,6 |
| Generation power, P* | Watts | 40 |
| Tolerance | % | ±10 |

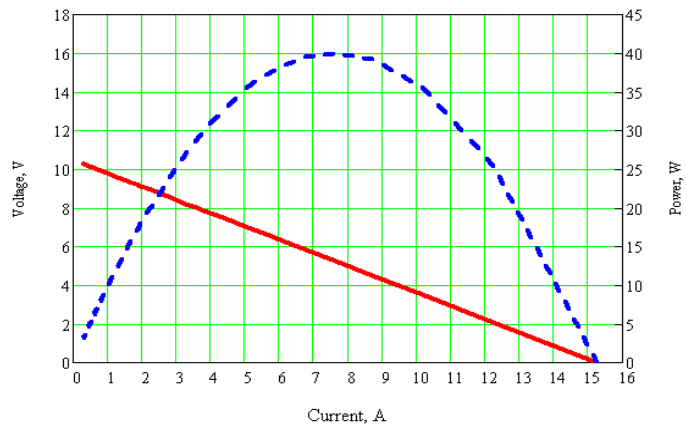
*Th=500°C – temperature of the hot side;

*Tc=115°C ; – cold side temperature;

*Ri - module's internal resistance;

*RL– load's electrical resistance.





— Voltage vs. Current
 - - - Power vs. Current

