

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 $S=1,1 \cdot 10^4 \text{ mm}^2$)	<i>N</i>	100 000
Weight (with wires)	<i>kg</i>	0,86

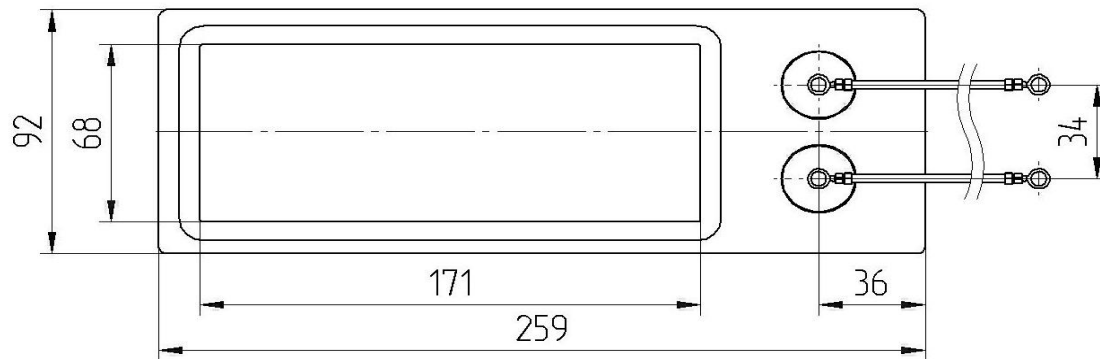
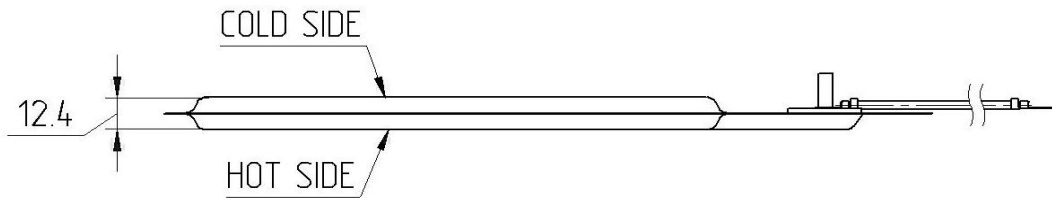
<i>Thermoelectric parameters</i>	<i>Unit</i>	<i>Value</i>
Voltage $U_L (R_L=R_i)^*$	<i>Volts</i>	5,2
Current $I_L (R_L=R_i)^*$	<i>Amps</i>	7,6
Generation power, P^*	<i>Watts</i>	40
Tolerance	%	±10

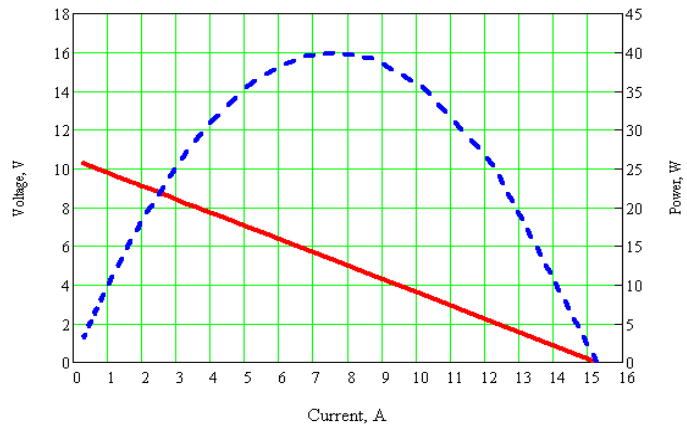
* $T_h=500^\circ\text{C}$ – temperature of the hot side;

* $T_c=115^\circ\text{C}$; – cold side temperature;

* R_i - module's internal resistance;

* R_L – load's electrical resistance.





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

