

MODULES FOR THERMOELECTRIC GENERATORS

Areas of Application

The modules are designed for creating thermoelectric generators used as low-temperature stage of heat engines, combustion engines, diesel engines, gas turbines, etc. using the exhaust heat, as well as for creating heat and electricity generators with catalytic flameless combustion of gaseous or liquid fuel

Specification

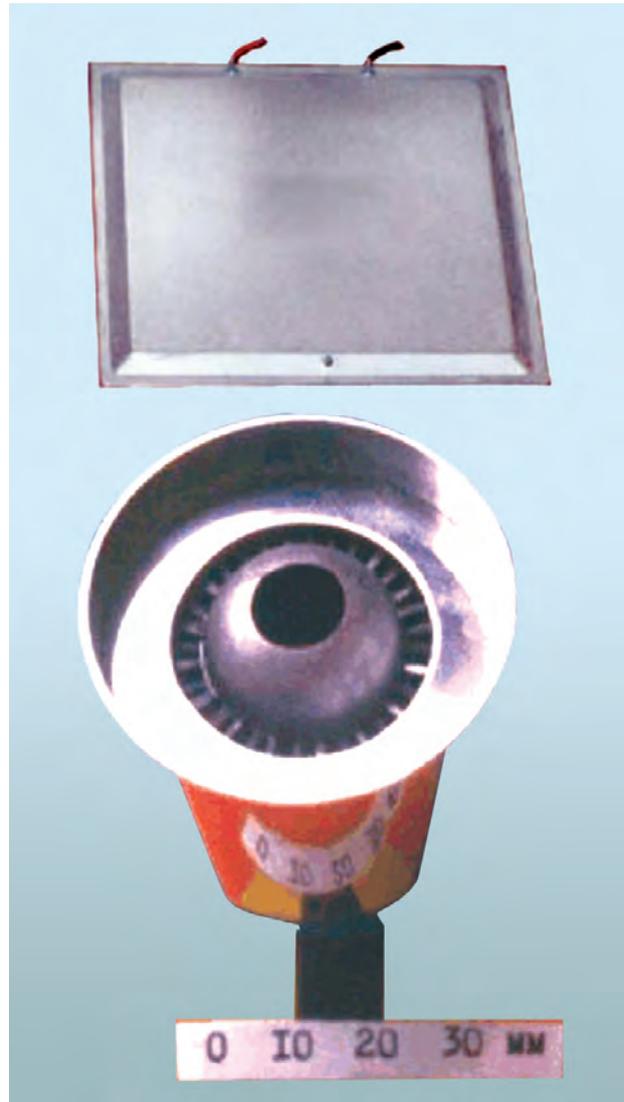
Operating temperature of the hot side during long-term operation, °C	250 and lower
Permissible overheat of the hot side, °C	300–400
Operating temperature of the cold side, °C	30–80
Permissible overheat of the cold side, °C	120
Number of heating-cooling cycles	≤20 000

Stage of Development. Suggestions for Commercialization

IRL6, TRL6
Manufactured and supplied, upon request

IPR Protection

IPR3



Advantages

The modules have a higher reliability as compared with known analogs. They are made of special thermoelectric materials (including functionally gradient materials) that assure their maximum efficiency in a wide temperature range

Contact Information

Pavlo D. Mykytiyk, Institute of Thermoelectricity of the NAS of Ukraine and the Ministry of Education and Science of Ukraine; +38 037 22 444 22, e-mail: anatykh@gmail.com