

KRYOTHERM Company

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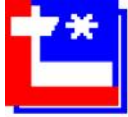
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GAS FUEL THERMOELECTRIC GENERATOR

GTEG-300





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Intended application

Thermoelectric generator, GTEG-300 has high reliability, possibility of remote control and runs on natural gas or propane.

GTEG-300 generates electricity through the direct conversion of thermal energy into electricity. It has no moving parts, long service life and requires minimal maintenance. The generator starts automatically as soon as at the input of the generator gas pressure appears.

Ignition starts working automatically as soon as fuel pressure appears in fuel pipe connection.

GTEG-300 is intended for use as a source of electric power and as a heat source. Can be used independently and as part of Autonomous Power Supply Unit (APSU).

The main unit of generator is medium temperature generating thermoelectric module (MTGM) with the highest industry efficiency and reliability, provided with modern design and technological solutions. It allows the generator to operate without maintenance for one year in different climatic zones at ambient temperature from $-50\text{ }^{\circ}\text{C}$ up to $+60\text{ }^{\circ}\text{C}$ and relative humidity up to 98%.



Pic. 1. Output parameters in working conditions



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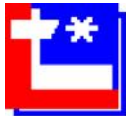
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GTEG-300 main parameters:

Parameter	Value
Nominal voltage (factory presets), V	12 or 24 or 28
Nominal electric power at 12V, W	300
Fuel grade (factory presets)	Natural Gas Propane/LPG Butane
Heat absorber temperature under nominal conditions, °C	510±5
Natural gas fuel consumption, m ³ /day, max	29
Life-time, years, min	25,0
Unattended operation mode, h, min	8760 (1 year)
Nominal condition warm-up time, h, max	1,0
Weight, kg, max	320



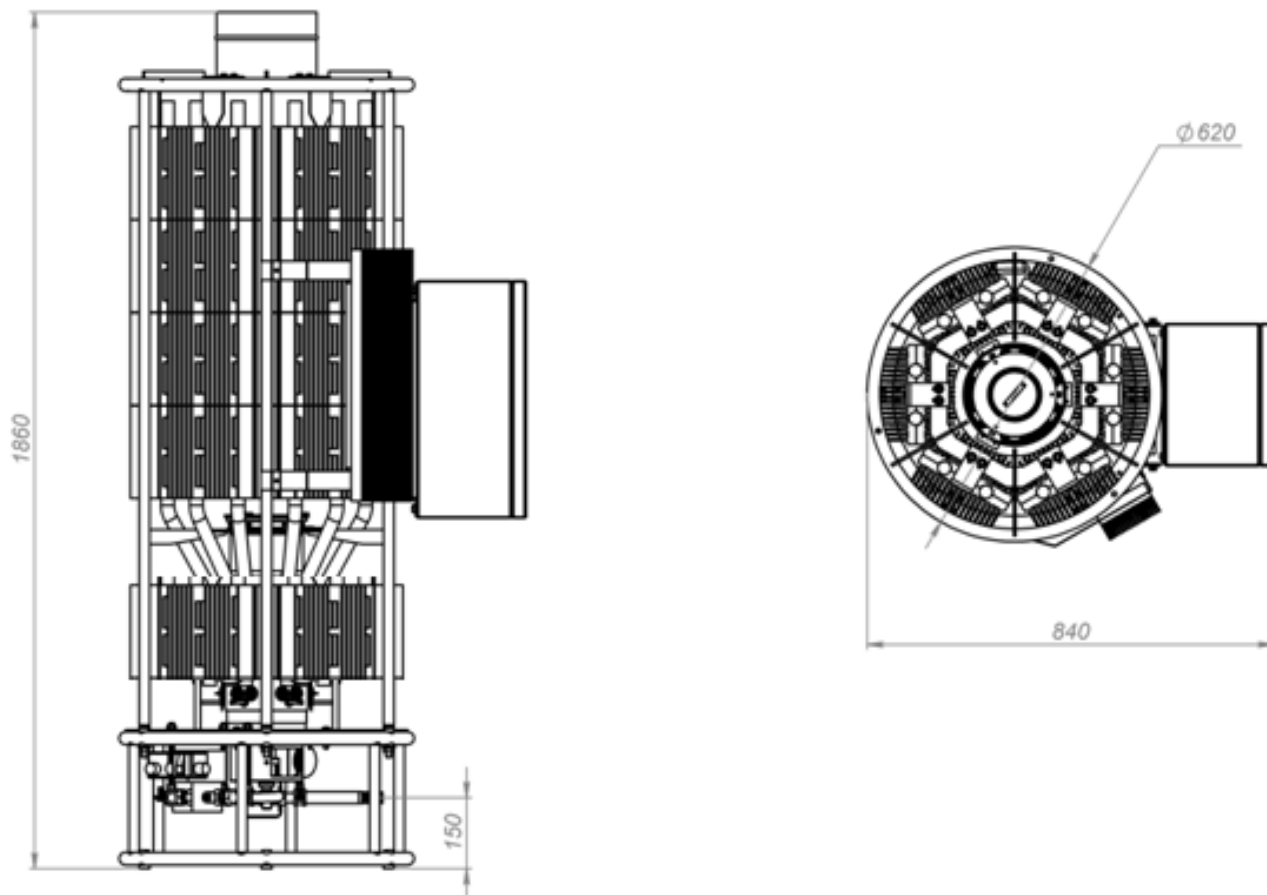
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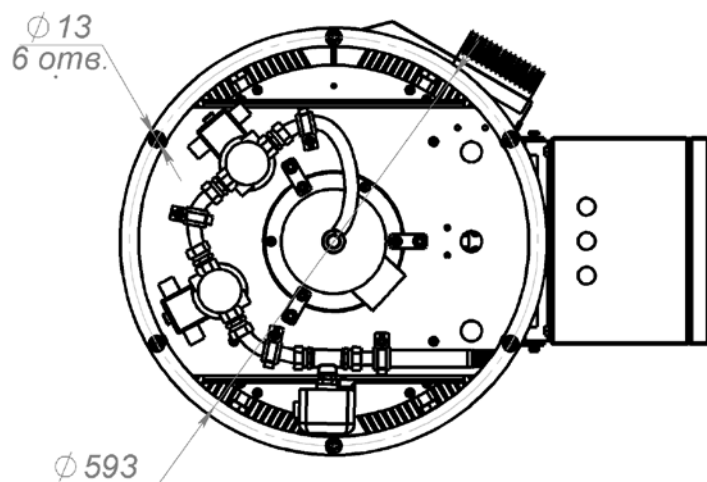
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Overall dimensions



Pic. 2. Overall dimensions





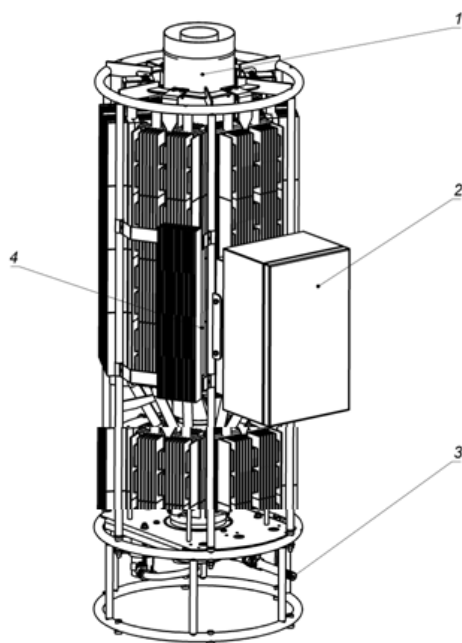
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GTEG-300 main parts

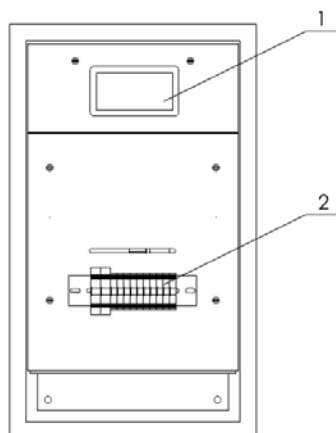


- 1 – combustion products removing pipe
- 2 – electric cabinet with burn control unit;
- 3 – inlet gas tap;
- 4 – electric power limiting unit.

Pic. 4. GTEG-300 main parts

The main component of the device is the thermoelectric generating unit.

The electrical Cabinet houses: the automatic combustion control and terminal strip.



- 1 – automatic combustion control;
- 2 – terminal strip.

Pic. 5. The electrical cabinet.