



## Thermoelectric Gas Generator

The thermoelectric gas generator (TGG) is a power supply of electric energy, which it generates by thermoelectric conversion, based on the Zeebeck phenomenon, at the expense of direct heat conversion, received by fuel combustion, into electric energy.

TGG-150 intended for direct current supply of radio-electronic devices, complex, linear telemechanics and automatics, communications and cathode protection on trunk line gas pipe lines, on objects which lack standard power supplying units, but with available natural gas.

### Main technical specifications of TGG-150 W

Parameter description	Value
Optimal voltage, V	27,5
Nominal current, A	5,45±0,2
Nominal power, W, ≥	150
Fuel grade	Natural gas Liquefied gas
Internal electric resistance in inactive status, Ohm, ≤	1,6
Internal nominal electric resistance, Ohm, ≤	5,0
Intake gas pressure into GTG, kgs/cm <sup>2</sup> : Natural gas (nozzle Ø 0,8 mm) Liquefied gas (nozzle Ø 0,6 mm)	≤0,5 ≤1,5
Specific gas discharge, g/W*h, ≤	2,75
Life time, years, ≥	10
Autonomy, h, ≥	8760
Overall dimension: Diameter, mm, ≤ Height, mm, ≤	600 906
Mass, kg, ≤	136

#### Advantages:

- Reliability
- Long life operation without any service in all kind of climatic zones.
- TGG is a heat source for air heating.

Rif Corporation is preparing the following thermoelectric generators for delivery, with power ratings of 150 W, 200 W, 300 W, 500 W

