

KRYOTHERM Company

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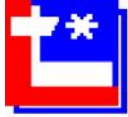
e-mail: info@kryotherm.ru; <http://www.kryothermtec.com>

GAS fuel THERMOELECTRIC GENERATOR

GTEG-120

«Easy to install, simple to use»





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GTEG-120 DESCRIPTION

1. Purpose

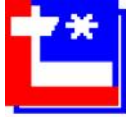
Thermoelectric generator GTEG-120 is high reliable remote power supply unit working with natural gas or propane. GTEG-120 generates electrical power converting directly heat energy into electricity. It does not contain moving parts, have extremely long lifetime and require minimal service.

Ignition starts working automatically as soon as fuel pressure appears in fuel pipe connection. GTEG-120 is meant for use as an electric direct current (DC) power and heat source. As the core part of GTEG medium temperature hermetically sealed thermoelectric generating module is applied with best efficiency and reliability. It is based on modern technologies and know-how and provides ultimate parameters.

GTEG-120 has 316 SS casing and fitting, designed for unsheltered operation in harsh, hazardous environments, including offshore applications. Certified for use in location Class 1, Div.2, Group D, T3. Run unattended within one year in different climatic zones at an air temperature from -50°C to +60°C and relative air humidity up to 98%..

2. Main parameters of GTEG-120:

Parameter	Parameter value
Nominal voltage (factory presets), V	12 or 24
Nominal electric power at matched load, W, min	120
Fuel grade (factory presets) :	
Natural Gas -	34,7 MJ/m ³ (1,000 BTU/cu.ft.)
Propane/LPG -	62 MJ/m ³ (2,500 BTU/cu.ft.)
Butane -	72 MJ/m ³ (2,900 BTU/cu.ft)
Nominal internal electrical resistance in	1.07



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nonoperational mode, Ohm, max	
Nominal internal electrical resistance in nominal operational mode, Ohm, max	4.8
Electrical insulation resistance between GTEG output terminals and construction frame in nonoperational mode, MOhm, min	1.0
Electrical insulation resistance between GTEG output terminals and construction frame in nominal operation mode, MOhm, min	0.3
Heat receiver temperature under nominal conditions, °C, max	500
Inlet gas pressure, kgf/cm ² , max	0.3
Gas fuel consumption, m ³ /day, max - Natural Gas - Propane/LPG	10.7 8
Life-time, years, min	20
Isolated operation mode, h, min	8,760
Nominal condition warm-up time, h, max	1.0
Overall dimensions (without exhaust system), mm, max: - diameter - height	600 915
Weight netto, kg, max	136



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3. Main parts of GTEG-120

