



Gas turbine

PURPOSE AND FIELD OF APPLICATION

The special purpose gas turbine generator GTG-100K is used in power plants of air-cushion landing ships.

TECHNICAL DATA

Si

1. Rated output, kW

100

2. Efficiency, %

11,4

3. Air flow, kg/s

1,36

4.Compression ratio

5,5

5.Gas temperature in gas offtake, ?C

600

6.Fuel

Diesel fuel

7.Fuel rate, kg/h

80

8.Frequency, Hz

400

9.Voltage, V

230

10.Overall dimensions, mm

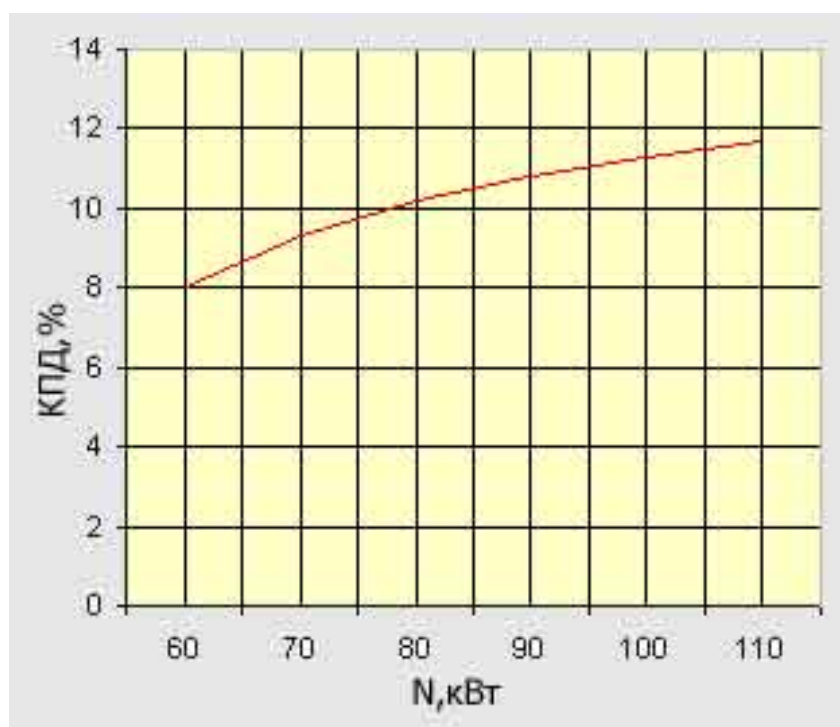
1850x755x1170

11.Weight, kg

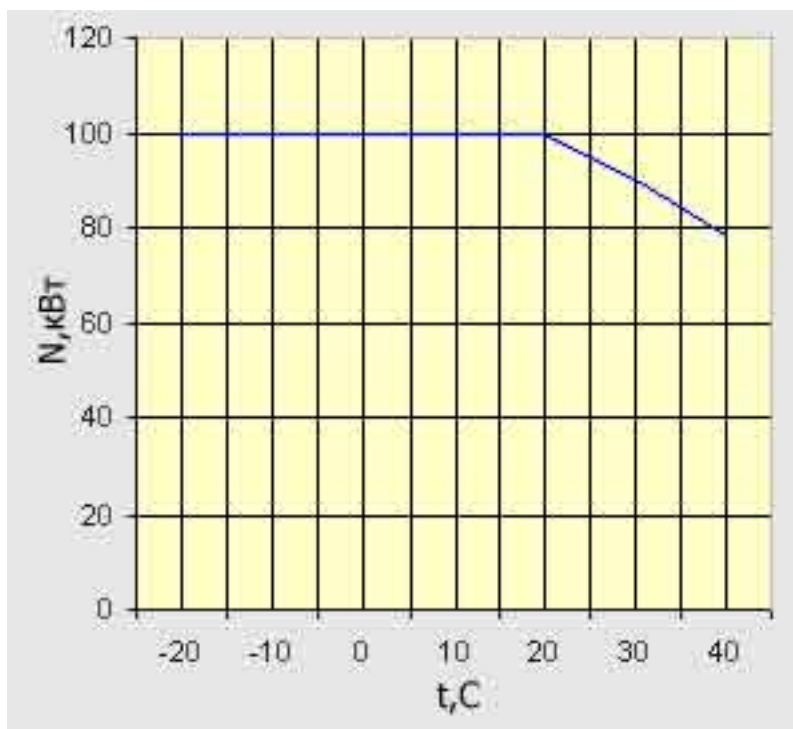
520

12.Specified life, h

8000



Efficiency vs. engine output



Power output vs. inlet air temperature

GAS TURBINE GENERATOR DESIGN

- Single-shaft design

- Centrifugal compressor
- Three-stage axial-flow turbine
- Turbine rotational speed 43,000 rpm
- Built-in single-stage planetary gearbox, gear ratio 3.58
- Three-phase synchronous contactless generator, rotor speed 12,000 rpm
- Started by two electric starters powered from 24 V storage batteries

SERVICE Installation, start-up and adjustment operations
■ Spare parts list
■ **EQUIPMENT DELIVERY OPTIONS**
■ Set of operator's documents



Applic

Numb

propulsive plant Landing

hovercraft "Zubr", "Murena"

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Ukraine

Russia

Greece