



- Catalytic thermogenerator is intended to charge the batteries of mobile phones, MP3 players, radios and low-power radio-electronic equipment with DC power supply.
- The operating principle is based on the direct conversion of heat from gaseous fuel combustion into electricity using thermoelectricity.

Appearance of thermoelectric generator



- Thermoelectric generator consists of a cylindrical body, which comprises a heat source (catalytic gas burner), a fuel reservoir, thermoelectric modules, a heat sink to supply and reject heat from the modules and a fan for forced air supply to a cold sink.
- Gas supply is carried out by means of a valve, which operates in a mode "open - closed". Air supply for cooling and fuel burning is performed by the fan powered by a low-power battery, which the thermogenerator is equipped with. At the bottom of fuel reservoir a device for periodic refueling the generator with fuel is located. For filling standard gas cylinders for cigarette lighters are used. Starting of the thermogenerator is from a match or lighter flame.
- Use of the catalyst provides flameless combustion of gas fuel and eliminates the formation of harmful substances in gas combustion products.
- Use of liquefied gas (propane, butane, isobutane) as a fuel provides a consumer with autonomous electrical power supply.

№	Parameter name, measurement unit	Value
1.	Electric power, W	1
2.	Electric voltage, V	3,5-6,0
3.	Fuel	propane – butane, isobutane
4.	Operating time with one fueling, hours.	10
5.	Overall dimensions, mm: diameter height	55 130
6.	Weight without fuel, g	220

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