

**NEW!**



## **THERMOELECTRIC GENERATOR WITH KEROSENE LAMP**

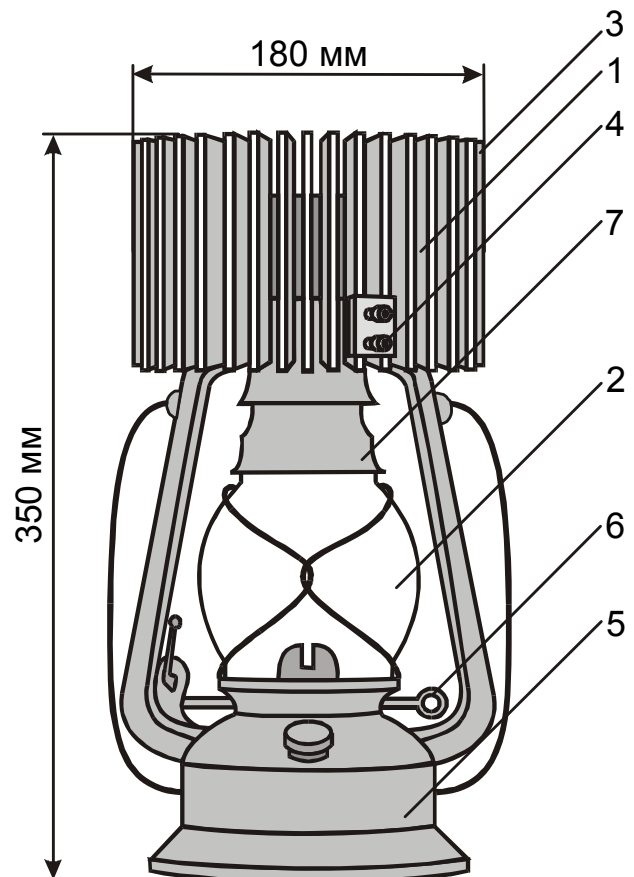
**ALTEC - 8018**



- Intended for direct current electric power supply to radio receivers, tape recorders, mobile phones, guard alarm systems, as well as charging of various-purposes batteries. At the same time the generator is used for the illumination of buildings, cottage houses, warehouses, garages, tents and pavilions. The generator is indispensable in walking tours, geological prospecting expeditions, outdoor rest, etc.

- The operating principle is direct conversion of thermal energy from kerosene combustion to electric energy on the basis of thermoelectricity.

### **Appearance and diagram of thermoelectric generator**



- Thermoelectric generator consists of two main parts: thermoelectric converter 1 and heat source 2. The thermoelectric converter comprises coaxially located hot and cold heat sinks with thermopiles installed between them. Electric terminals 4 are installed on the fins of the cold heat sink 3 for connection of external load. A kerosene lamp comprising fuel vessel 5, fuel consumption regulator 6 and gas removal pipe 7 is used as a heat source.

### Parameters of thermoelectric generator

No	Parameter, measurement unit	Value
1.	Rated electric power, W	2.5
2.	Output voltage, V	3
4.	Kind of fuel	Lighting kerosene
5.	Fuel flow rate, g/hour	14.5
6.	Fuel vessel, l	0.5
7.	Time of generator operation at one filling of fuel vessel, h	23
8.	Generator weight without fuel, kg	2.2

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