

Thermoelectric cabinet cooler, TC-100-AC (NSBon-40) is designed to divert an excess heat from critical components within an electrical enclosure. The thermoelectric modules (Peltier effect) create a temperature difference between the internal and ambient heat sinks. It makes internal air colder while heat is dissipating into the external environment. These coolers can be used in hot regions to extend the service life of either UPS batteries or installed sensitive customer equipment.

The main advantages of Thermoelectric Cooler over conventional compressor are:

- it can be controlled electronically;
- it is easily reversible when the current is reversed;
- it can work in harsh environments:
  - in high ambient temperatures or heavily polluted ambient air;
  - in application with vibrations or strong accelerations.

#### Technical Data TC-100-AC

Supply voltage : 90-305 VAC, 48-62 Hz
Rated input : 100 W
Max. input current : 4 A
Protection category outer side (warm) : IP66
Protection category internal side (cold): IP20
Operating temperature range: -40°C to 70°C
Storage temperature range : -40°C to 70°C
Dimensions: 245 x 175 x 142 mm
Weight (without protective housing): 3 kg
Weight (with protective housing): 3,5 kg
Fitting position: Variable
* Benefit : the lack of additional power supply which takes up a lot of space and emits extra heat, which must be compensated

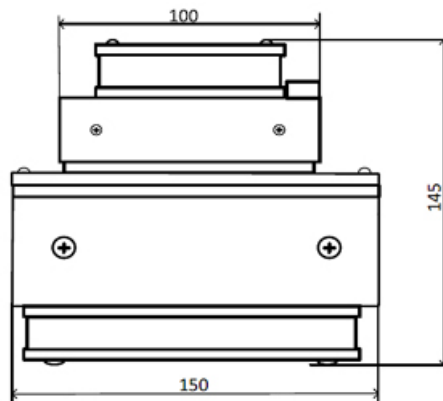
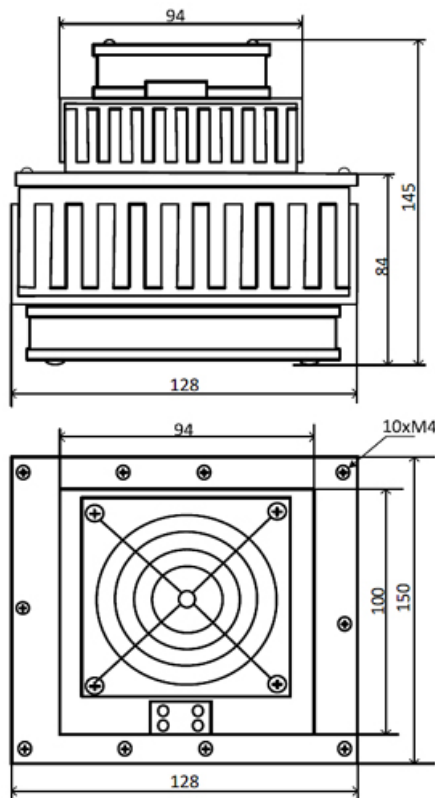


#### Electrical enclosures with installed Cabinet Cooler TC-100-AC

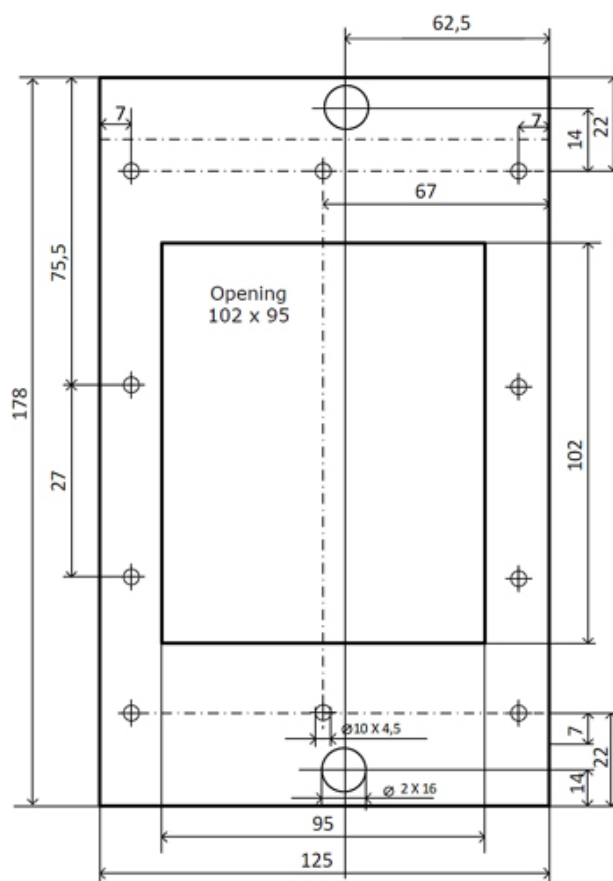
NSBox-ICE is a special designation of equipped enclosures installed thermoelectric assembly with cooling capacity either 100 or 200 W. Various series of enclosures with protection category IP66 are proposed: Sheet Steel, Glass Reinforced Polyester (GRP) and Polycarbonate. The basic kit includes the selected cooler with a thermostat, a backplate with DIN rails for customer equipment, terminal blocks, a circuit breaker and a set of cable glands.



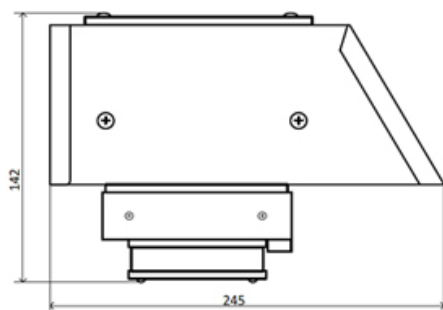
Main dimensions without Protective housing:



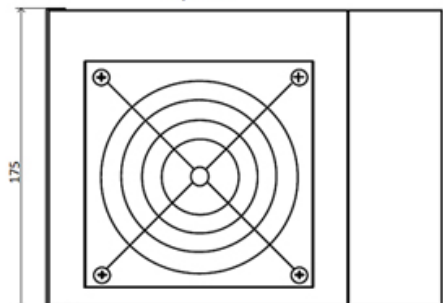
The necessary opening for installation:



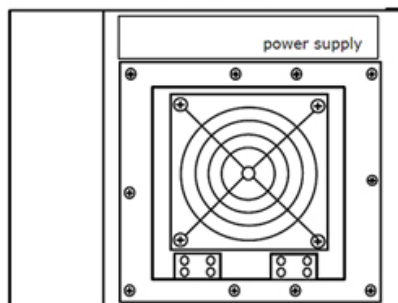
Main dimensions with Protective housing:



Top view



Bottom view



The product „Cabinet Cooler – TC-100-AC“ meets the requirements for a CE mark:

**Interference immunity to EN 61000-6-2/VDE 0839 Part 6-2**  
Electromagnetic compatibility; basic standard on interference immunity



**Radio interference suppression to EN 55022 Class A**  
Electromagnetic compatibility of equipment for information processing and telecommunication

**Electric safety to EN 60950**  
Safety of equipment of information engineering including electric office machines.

This declaration is delivered in the responsibility of the manufacturer