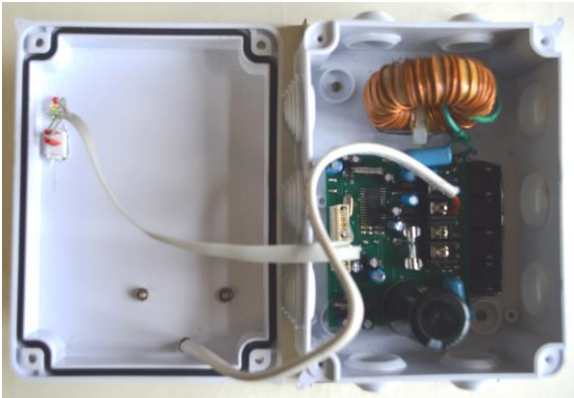


3.11. DC VOLTAGE CONVERTER



The converter is intended to convert constant (alternating) voltage of the network, renewable energy sources (RES) or batteries of 35 ... 380V into a constant voltage of 350 ... 405V. It can be connected to a stand-alone (grid) inverter or to charge batteries.

Specifications, competitive advantages:

- high efficiency - 85% -96% depending on the input voltage;
 - input voltage - 35... 380V of DC or 30... 250V of AC (network, RES, batteries);
 - output voltage - 350... 405V of DC;
 - MPPT mode is provided when the number of photovoltaic panels connected in series is from 1 to 10 at the input of the converter;
 - current is limited to 10A when it is powered by a battery and when charging the battery from a network or RES;
 - operating temperature range - from -10°C to +40°C;
 - degree of enclosure protection – IP55;
 - overvoltage (undervoltage), short circuit, and overheating protection;
 - indication of input and output parameters (voltage, current and emergency situations);
 - dimensions (W x L x H) – 160 x 160 x 100 mm;
- absence of cooling fan, which significantly reduces the operating noise and increases operational reliability.