

6.04. RESONANT INVERTER FOR INDUCTION HEATING ON IGBT



It is designed to work in composition with a parallel resonant LC circuit for heating, melting and heat treatment of raw materials and supplies. It provides a manual mode of inverting frequency setting or automatic adjustment of inverting frequency to the resonance frequency of the load circuit, as well as regulation of the output power in the range of 0 ... 100%.

Technical specifications:

- device supply: three-phase network 380B, 50 Hz
 - maximum power: 30 kVA
 - output frequency range: 1 ... 25 kHz
 - the maximum effective value of the output voltage: 550 V
- protection by output current and output voltage.
 - temperature protection: when exceeding 85°C on the heat semiconductors the emergency shutdown is triggered.
 - cooling - air forced.
 - power supply of control circuit and forced cooling fans – from AC network 220 V, 50 Hz.