

SEARCH COMPLEX Г34-2500 WITH RECEIVER П-806



Audio frequency generator Г34-2500 is intended for searching of fault location and afterburning of power supply cables.

Operating conditions:

- A range of temperatures of air: from - 20°C up to +40°C;
- Relative humidity of air at the temperature 25°C: up to 80%;
- Atmospheric pressure, mm mercury: 650 – 800.

The fumes of corrosive liquids (acids and alkalis) have not to be on the operating place.

Receiver П-806 is intended for:

- Searching of cable run, fault location of interphase insulation and deposition depth of high voltage power cables by the induction method;
- Searching of fault location of high voltage power cables by the acoustic method.

At the searching by the induction method receiver has to operate with additional generator of continuous oscillations of any form with frequency 1024 ± 2 Hz and 2048 ± 4 Hz, which provide output power not less than 200 W on the load range from 0,5 to 200 Ohm (for example, Г34-1000, Г34-2500).

At the searching by the acoustic method receiver has to operate with additional generator of power pulses with voltage 5-10 kV, pulse energy 150 – 1000 joule, and pulse separation in some second (for example, ГАУВ-5).

Receiver is intended for operation in field condition under a range of air temperatures: from - 20°C up to +40°C; relative humidity of air: up to 80%; atmospheric pressure, mm mercury: 650 – 800.

NOTE. Low level of operating temperature is defined by the ability to work under this temperature of power source and LCD.

SPECIFICATIONS OF Г34-2500:

Output power in matched mode, W, not less	2500
Maximum output open-circuit voltage, V	300
Maximum output current, A	50
Generation rate, Hz	1024/2048
Modulation rate, Hz	1,5-3
Quantity of stages of load matching	12
Load resistance range, Ohm	0,5 - 150
Power supply	single-phase ac network frequency 50 ± 2 Hz, voltage 220 ± 20 V
Consumption power, W, not more	3000
Weight, kg	15
Dimensions, mm	320x360x200

SPECIFICATIONS OF П-806:

Adjustment frequencies, Hz	1024 ± 2 and 2048 ± 4
Limiting sensitivity to the magnetic field under signal-to-noise merit 6 dB, $\mu\text{A} / \text{m}$	No more, than 50
Load – headphones with resistance, Ohm	16 - 100
Power supply	4 Ni-MH accumulators AA with voltage 1,2 V and capacity 1,8 A-hour
Operating supply voltage, V	5
Consumption current, mA	30 - 130
Active time without recharging, hour	15 - 50
There is possibility of on-line inspection of accumulator charging level and input signal value.	

PASS BAND AT THE DIFFERENT OPERATING MODES

Mode	Pass band on the level 3 dB, Hz	Pass band on the level 20 dB, Hz
1024 Hz	9^{+1}	12^{+2}
2048 Hz	10^{+2}	14^{+4}
ACOUSTIC	100-1200	—