

LOW-FREQUENCY GENERATORS

LFG-50



MAIN FEATURES:

- Portable and lightweight *
- Moistureproof and dustproof case *
- Advanced LiFePO4 internal battery with fast charging option *
- High-contrast graphic OLED display
- Multifrequency operation
- Operating frequencies can be changed upon request
- Internal transmission loop antenna
- Automatic load impedance matching
- Ability to work with energized 0.4 kV cables (inductive connection)
- Overload protection

* - for LFG-50 only

LFG-200P



> CABLE FAULT LOCATION > Low-Frequency Generator



high voltage
testing equipment



► Application

LFG Low-Frequency Generators, when operated in conjunction with a receiver, can be used for locating as well as tracing underground metal communications, such as any cables with

metal cores as well as metal pipes. In addition, they provides operator with a quick detection of short circuits on cables as well as with an identification of a cable in a bunch.

► Description

LFG is a 50W (for LFG-50) and 200W (for LFG-200P) low-frequency generator with ability to inject a signal of three frequencies via direct connection to an object or via internal transmission loop antenna, which is built-in a cover lid. Basic frequencies are 491; 982 and 8440 Hz. There are options of using a single-frequency or multi-frequency signals at the output.

LFG-200P is a low frequency generator

which is used as a built-in device in ETL-series cable fault locators.

A load matching is made automatically. Main parameters, such as output power, load impedance, selected frequency are shown on OLED display. If a load is higher than 1000 Ω LFG automatically switches into output voltage setting mode. The output overload protection will trip, when operating on short-circuit loops (lower than 0.5 Ω).



Specifications ◀

Parameter	Value	
	LFG-50	LFG-200P
Operating frequencies, Hz	491 / 982 / 8440 (other - on request)	
Max. Frequencies count, operated simultaneously	3	
Output power range, W	0 – 50	0 – 200
Output power regulating step, W	2.5	10
Frequency selection	manual	
Operating modes	continuous / pulse	
Loop impedance matching range, Ω	0.5 – 1000	
Maximum output voltage (RMS), V	300	600
Loop impedance matching mode	auto	
Measured parameters ranges:		
output voltage, V RMS	0.1 – 300	0.1 – 600
output current, A RMS	0.01 – 9.99	0.01 – 20.0
load resistance, Ohm	0.5 – 1000	
phase angle, °	0 – 90	
pulse duty cycle, %	50	
Measurement error, %, of FS	5	
Pulse repetition frequency, Hz	1	
Power supply:		
input voltage, V	230 \pm 10 %	
input voltage frequency, Hz	50	
power consumption from mains, VA, max	100	300
external supply DC voltage, V	12 – 15	–
Internal battery:		
type	LiFePO4	–
operating voltage, V DC	12	–
battery life, hours	not less than 1	–
average charging time, hours	3	–
Dimensions (W \times H \times D), mm	366 \times 227 \times 270	482 \times 133 \times 345
Net weight, kg, max	8	

► Package contents

Component	Quantity	
	LFG-50	LFG-200P
LFG-generator	1	
Soft case	1	–
Power cable	1	–
Signal connecting wires	2	–
“Crocodile” connectors	3	–
User Manual	1	
Fuses	5	
Tracer PT-14	Optional	

► Tracer

Fast and accurate search for power cables and other communications, identification of coating defects and the depth, followed by mapping.

Parameter	Value
Operating frequencies, Hz	491 / 982 / 8440
Bandwidth:	
RADIO mode, kHz	10 – 36
ONLINE mode, Hz	48 – 10 000
Sensitivity, μV	1
Track depth measurement error, %, max	5
Dimensions, mm	700 × 300 × 140
Weight, kg, max	2.4

