# **LOW-FREQUENCY GENERATORS**







# LFG-200P



### **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)

**CP** 

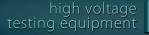
• Overload protection

\* - for LFG-50 only

#### > 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  $\Omega$  LFG automatically switches into output voltage setting mode. The output overload protection will trip, when operating on short-circuit loops (lower than 0.5  $\Omega$ ).





#### **CABLE FAULT LOCATION**

## Specifications

	Value	
Parameter	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, $\Omega$	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 ± 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 × 227 × 270	482 × 133 × 345
Net weight, kg, max	8	

#### **CABLE FAULT LOCATION**

# LFG-50 LFG-200P



### 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 measurment error, %, max	5	
Dimensions, mm	$700 \times 300 \times 140$	
Weight, kg, max	2.4	



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