

Description

Surge Wave generators **SWG-series** are intended for:

- Locating distance to a cable fault using high voltage reflectometer **ISKRA-3**;
- Cable fault location using receiver **P-806** or **POISK-2006M** receivers with acoustic method.

According to statistics, the most common faults in the three-phase underground power cable occur such as "single-phase breakdown" (breakdown of one of the cores to the cable sheath). Breakdown of this type can be "creeping" (intermittent) (ie recovering insulation up to a certain voltage, which is lower than the operating voltage of the cable), and with the "insulation leakage" (insulation resistance decreases up to tens kilohms - hundreds ohms).

Quite frequent cases of breakdown of the two cores one to another and to cable sheath (line-to-line short circuit).

For single-phase breakdowns developers recommend the acoustic method of finding and identifying the fault location.

For the line-to-line short circuit it can be recommended induction method using **GZCH-2500** with receiver **P-806** or **POISK-2006M** fault location for "loop" with preliminary insulation burning.

Note that in some cases you can use the receiver **P-806** or **POISK-2006M** to determine the cable route using a burning signal.

**Technical specification of standard models:**

Parameter	SWG-6	SWG-20/8	SWG-3250
Storage capacity, μF	10	8	250
Output voltage, kV max	20	20	5
Discharge pulse energy, Joules	2000	1440	3250
Operation modes	Auto/Manual	Auto/Manual	Auto/Manual
Dimensions	820x630x500	370x500x570	630x1150x1065
Weight	145	150	120

Any type of surge wave generator can be manufactured according to technical request of a customer.