

Description

High-voltage portable system SWGB is designed for:

- testing the insulation of cables and other devices and appliances by DC and AC (SWGB);
- burning the faulty insulation of cables with its subsequent after-burning (SWGB);
- location of cable line track (SWG/SWGB);
- topographic surveying of cable line fault location by using the induction and acoustic method (SWG/SWGB);
- prelocation of cable line faults by voltage of 0,4-10 kV by using pulse non-burning method at high and low voltage (SWG/SWGB).

Power supply of SWG/SWGB is carried out from the industrial single-phase network $230\pm 20V$, 50 or 60 Hz. Consumption current, max 30A. Also possible power supply from electric generator.

**Technical specification**

Parameter	Value				
Model	SWG-20-8	SWG-22-7	SWG-20	SWG-22	SWG-5
Surge voltage, kV, max	20	22	20	22	5
Surge voltage ranges, kV	5-10-15-20	5-10-15-20	5-10-15-22	5-10-15-22	5
Discharge pulse energy, Joules, max	1444 (2888*)	1543 (3087*)	1444 (2888*)	1543 (3087*)	1625 (3250*)
Storage capacity, μF	8 (16*)	7 (14*)	8 (16*)	7 (14*)	130 (260*)
Operating modes	Man/auto	Man/auto	Man/auto	Man/auto	Man/auto
Frequency of pulses in automatic mode, Hz	0.25	0.25	0.25	0.25	0.25
Burning/Testing					
Testing cable insulation AC/DC, kV	1-20	1-22	-	-	-
Number of burning stages	4	4	-	-	-
Burning current in short-circuit mode, A, max	8	8	-	-	-
After-burning voltage in the idling mode, V, max	500	500	-	-	-
Power consumption of burning unit, kVA, max.,	12	12	-	-	-
Load power, kW, min.,	3.5	3.5	-	-	-
Operating mode of the burning unit	continuous	continuous	-	-	-
Equipment weight, kg, max	170	170	100	110	120
Overall dimensions,	1150x610x1000	1150x610x1050	1150x630x1065	1150x630x1065	1150x630x1065

***Optional**

Also as an option Surge wave generator unit can be produced with customized parameters with surge wave energy range 600-3250 Joules and surge voltage 5-22 kV and connected time-domain reflectometer ISKRA-3M.