HVTS-70/50

PORTABLE HIGH-VOLTAGE TEST SYSTEM

- **DC & AC test modes**
- **Graphic display and digital control**
- **Manual and automatic control modes**
- **Internal memory for test results storage**
- **Portable design**
- **Safe two-module composition**
- **Built-in automatic grounding bar**
- **Overcurrent and overvoltage protection**

Portable high-voltage test system HVTS-70/50 is an effective and cost efficient solution for high-voltage testing of solid dielectrics with low and medium electric capacitance (power cables, switchgear, busbars, insulators, etc.) with DC voltage up to 70 kV and high-voltage testing of other objects with AC voltage up to 50 kV_{RMS} at industrial frequency (f = 50 Hz).

Output voltage type (DC or AC) is selected by a simple push of a button on the control panel – no additional equipment installation (e.g. rectifier) is required.

The system comprises of two separate modules – a control unit and a high-voltage unit. The control unit is powered from industrial mains and used to control the high-voltage unit from a safe distance. The high-voltage unit contains a step-up transformer with oil insulation.

HVTS-70/50 benefits from a graphic display and digital control which allows to run tests in manual and automatic cycles, as well as store test results in an internal memory of the system.

The system features an overcurrent and overvoltage protection and is equipped with a built-in automatic grounding bar.

Intertek
ISO 9001
Certificate № 28 110 804001

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high-voltage testing equipment

DC testing	Output voltage	Adjustment and indication range	0 … 70 kV
		Relative indication error	± [3 % + 2 dgt*]
	Output current	Maximum level	15 mA**
		Indication range	0 … 25 mA
		Relative indication error	± [3 % + 2 dgt*]
AC testing	Output voltage	Adjustment and indication range	0 … 50 kV_{RMS}
		Relative indication error	± [3 % + 2 dgt*]
	Output current	Maximum level	40 mA_{RMS}**
		Indication range	0 … 45 mA
		Relative indication error	± [3 % + 2 dgt*]
	Load capacitance @ rated output voltage		up to 1.6 nF
System parameters	Test modes		▪ Manual ▪ Auto
	Voltage ramp rate		0.5 … 4.0 kV/s, step 0.5 kV/s
	Internal memory		32 test reports
	Custom test timer pre-set range		0:10 … 59:59 min
Interface	Display		Monochrome, 128 × 64 px
	Menu languages		▪ English ▪ Russian ▪ Other (option)
Safety	Grounding		▪ Protective earthing ▪ Automatic grounding bar
	Protection		▪ Overvoltage ▪ Overcurrent
	High voltage switch off		▪ EMERGENCY STOP button ▪ Power keylock switch ▪ Safety interlock (option)
Power supply and consumption	Mains supply voltage		230 VAC, ± 10 % (110 Hz option)
	Mains supply frequency		50 Hz (60 Hz option)
	Power consumption		up to 2.5 kV•A
	Current consumption		up to 11 A @ 230 V (up to 22 A @ 110 V)
Physical	Control unit dimensions, H × W × D		265 × 349 × 240 mm
	Control unit weight		13 kg
	High-voltage unit dimensions, H × W × D		500 × 360 × 310 mm
	High-voltage unit weight		35 kg

* dgt – least significant digit.

** If the output current exceeds 50 % of the maximum possible current output, do not operate the system in the continuous duty cycle for longer than 10 minutes; if the output current exceeds 75 % – 1 minute.

Specifications are subject to change without notice. Pictures are for illustration purposes only.

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