

HVT-70/50

PORTABLE HIGH-VOLTAGE TEST SYSTEM



- DC & AC test modes
- Simple control
- Reliable pointer indication
- Portable design
- Safe two-module composition
- Built-in automatic grounding bar
- Overcurrent and overvoltage protection

Portable high-voltage test system HVT-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 turn of a switch 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. Output voltage and current are displayed on the reliable and easily readable pointer indicators. The high-voltage unit contains a step-up transformer with oil insulation.

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



KHARKOVENERGOPRIBOR LTD.

9, Generala Momota Str.,
Kharkiv, Ukraine, 61075
www.kephv.com
info@kephv.com
Tel.: +38 (057) 393-20-28
Fax: +38 (057) 393-10-69

DC testing	Output voltage	Adjustment and indication range	0 ... 70 kV
		Relative indication error	± 3 % of full range
	Output current	Maximum level	15 mA*
		Indication ranges	<ul style="list-style-type: none"> ▪ 0 ... 1 mA** ▪ 0 ... 15 mA
		Relative indication error	± 3 % of full range
AC testing	Output voltage	Adjustment and indication range	0 ... 50 kV _{RMS}
		Relative indication error	± 3 % of full range
	Output current	Maximum level	40 mA _{RMS} *
		Indication range	0 ... 45 mA
		Relative indication error	± 3 % of full range
	Load capacitance @ rated output voltage	up to 1.6 nF	
Safety	Grounding	<ul style="list-style-type: none"> ▪ Protective earthing ▪ Automatic grounding bar 	
	Protection	<ul style="list-style-type: none"> ▪ Overvoltage ▪ Overcurrent 	
	High voltage switch off	<ul style="list-style-type: none"> ▪ EMERGENCY STOP button ▪ Power keylock switch 	
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	

* 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.

** The range is used for small leakage current monitoring only. Current indication error is not specified for this range.

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



KHARKOVENERGOPRIBOR LTD.

9, Generala Momota Str.,
Kharkiv, Ukraine, 61075
www.kephv.com
info@kephv.com
Tel.: +38 (057) 393-20-28
Fax: +38 (057) 393-10-69