

## HVT-70/50 PORTABLE DC/ AC HIGH-VOLTAGE TEST SYSTEM

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

Output voltage type is selected by a simple turn of a switch on the control unit – no additional equipment installation 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 **analog pointer indicators**. The high-voltage unit contains a step-up transformer with oil insulation.

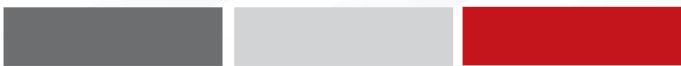
The system features an **overcurrent and overvoltage protection** and is equipped with a built-in **automatic grounding bar**.

### Features:

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



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## Specifications:

DC testing parameters	Voltage	Output level	Up to 70 kV
		Full-scale measurement error	± 3 %
	Current	Output level	Up to 15 mA*
		Measurement ranges	<ul style="list-style-type: none"> <li>0 ... 1 mA**</li> <li>0 ... 15 mA</li> </ul>
		Full-scale measurement error	± 3 %
AC testing parameters	Voltage	Output level	Up to 50 kV <sub>RMS</sub>
		Full-scale measurement error	± 3 %
	Current	Output level	Up to 40 mA <sub>RMS</sub> *
		Measurement range	0 ... 45 mA
		Full-scale measurement error	± 3 %
Load capacitance in AC mode @ rated output voltage		Up to 1.6 nF	
Safety	Protection	<ul style="list-style-type: none"> <li>Over - voltage tripping</li> <li>Over-current tripping</li> <li>Automatic grounding bar</li> </ul>	
Power supply and consumption	Supply voltage	230 V ± 10 %, AC	
	Supply frequency	50 Hz (60 Hz option)	
	Power consumption	Up to 3 kVA	
	Current consumption	Up to 10 A @ 230 V	
Physical	CU dimensions, H × W × D	265 × 349 × 240 mm	
	CU weight	13 kg	
	HVU dimensions, H × W × D	500 × 360 × 310 mm	
	HVU weight	35 kg	

\* If the output current exceeds 50 % of the total 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 measurement error is not specified for this range

**HVT - 70/50 designed & manufactured by Kharkov Energo Pribor (KEP) at, its facilities in Ukraine, Europe & U.K**

