



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

Portable high-voltage test system **HVTS-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 50 kVrms** at industrial frequency (f = 50 Hz).

HVTS is a latest generation AC/DC HIPOT that provides **Automatic Cycle** tests with option of Manual cycle testing

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 internal memory of the system.

All measurements are displayed on the **backlit LCD display**, with analog ammeter & voltmeter emulated on the digital display. Provided in an easy to transport car to allow easy on field testing.

Output voltage type is selected by a simple push of a button on the control unit – 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.

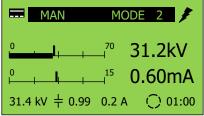
The system features an over current and over voltage protection and is equipped with a built in automatic grounding bar.

## **Features:**

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







AUTO			
Voltage	0.0 kV		

Advanced				
Sound Alarm Information Interlock	On On On Off			





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

## Specifications:

Specificati	ions:			
DC testing	Voltage	Output level	Upto 70 kV	
Parameters		Relative measurement error	± [3 % + 2 dgt]	
	Current	Output level	Upto 15 mA optional :25mA *	
		Relative measurement error	± [3 % + 2 dgt]	
	Voltage	Output level	Upto 50 kV <sub>RMS</sub>	
		Relative measurement error	$\pm [3 \% + 2 dgt]$	
AC testing		Output level	Upto 40 mA <sub>RMS*</sub>	
parameters	Current	Relative measurement error	$\pm [3 \% + 2 dgt]$	
	Load capacitance in AC mode @ rated output voltage		Upto 1.6 nF	
	Test modes		Automatic & Manual	
System parameters	Voltage ramp rate		0.5 4.0 kV/s, step 0.5 kV/s	
	Internal memory		32 test reports	
	Monochrome graphic display		128 × 64 px	
	Menu languages		English	
	Timer		Preset ranges of 1 minute, 5 minutes; plus custom set	
			range between 10 to 59.59 minutes, programmable	
	Output voltage / current limit control		Maximum Output voltage and current limits settable	
	Instrument control		1. Push button for menu control, AUTO Test, Timer control	
Interface			2. Rotary knob with encoder to change output level	
			manually	
			3. Start button	
	Date/Time		Settable and displayed on system	
	Audio		Option for sound ON/OFF	
	Voltmeter & Ammeter		Emulated on Digital display	
	Alarms		Audio + visual alarm at breakdown trip	
	Protection		Over-voltage tripping	
			Over-current tripping	
Safety			Automatic grounding bar	
	Compliance		Conformance to EMC Emissions	
			• Conformance to EN 61326-2-1 : 2013	
			Conformance to EN 61010-1 : 2010	
	Certification		CE Certified	
Power		upply voltage & Supply frequency $230 \text{ V} \pm 10 \text{ %, AC (110 V option) } 50 \text{ Hz (60 Hz option)}$		
supply and		er consumption up to 2.5 kVA		
consumption		onsumption	up to 10 A @ 230 V	
Physical	CU dimensions, H × W × D		265 x 349 x 240 mm	
	CU weight		13 kg	
	HVU dimensions, H × W × D		500 x 360 x 310 mm	
	HVU weight		35 kg	
	Supply includes		HV Test cable, 1mm², 4 meters length, red color	
			Power supply cable, 5meters length, black color	
			Earthing cable, 4mm², 4 meters length	
			Operating grounding cable, 4mm2, 4 meters length	
			Optional : Transport trolley	

<sup>\*</sup> To be specified at time of ordering

<sup>\*\*</sup> 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.



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