HVTS-HP series

MOBILE HIGH-POWER HIGH-VOLTAGE TEST SYSTEMS

- **DC & AC test modes**
- **High power output**
- **Graphic display and digital control**
- **Manual & automatic test cycles**
- **Internal memory for test results storage**
- **Mobile design**
- **Safe two-module composition**
- **Overcurrent, overvoltage and overheating protection**

Mobile high-power high-voltage test systems HVTS-HP are designed for high-voltage testing of solid dielectrics with low and medium electric capacitance (power cables, switchgear, busbars, insulators, etc.) with DC voltage up to 140 kV[1] and high-voltage testing of other objects with AC voltage up to 100 kV_{RMS}[1] at industrial frequency (f = 50 Hz).

HVTS-HP-series systems are able to output high current at high voltages, making them suitable for conducting a multitude of tests according to a wide range of standards and regulations.

The systems comprise of a control and a high-voltage mobile units, each built in a form of a trolley. The control unit is a mobile operator station 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 SF6 insulation, as well as a high-voltage divider and a rectifier.

HVTS-HP 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 systems feature an overcurrent, overvoltage and overheating protection.

[1] Depending on the model.

Intertek
ISO 9001
Certificate № 28 110 804001

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

high-voltage testing equipment

			HVTS-HP-100/100-7.5 (17.5)	HVTS-HP-140/100-7.5 (17.5)
DC testing	Output voltage	Adjustment and indication range	0 … 100 kV	0 … 140 kV
		Relative indication error	± [3 % + 2 dgt*]	
	Output current	Maximum level	40 (80) mA**	30 (60) mA
		Indication range	0 … 40 (80) mA	0 … 30 (60) mA
		Relative indication error	± [3 % + 2 dgt]	
AC testing	Output voltage	Adjustment and indication range	0 … 100 kV_{RMS}	
		Relative indication error	± [3 % + 2 dgt]	
	Output current	Maximum level	75 (175) mA_{RMS}	
		Indication range	0 … 75 (175) mA	
		Relative indication error	± [3 % + 2 dgt]	
	Load capacitance @ rated output voltage		up to 2.4 (5.4) nF	
System parameters	Test modes		▪ Manual ▪ Automatic	
	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	
Interfaces	Display		Monochrome, 128 × 64 px	
	Menu languages		▪ English ▪ Russian ▪ Other (option)	
Safety	Grounding		▪ Protective earthing	
	Protection		▪ Overvoltage ▪ Overcurrent ▪ Thermal overload warning ▪ Low internal gas pressure warning	
	High voltage switch off		▪ EMERGENCY STOP button ▪ Power keylock switch	

Power supply and consumption	Mains supply voltage	230 VAC, ± 10 %
	Mains supply frequency	50 Hz
	Power consumption	up to 9 (19) kV•A
	Current consumption	40 (82) A***
Physical	Control unit dimensions, H × W × D	1063 × 735 × 561 mm
	Control unit weight	82 (127) kg
	High-voltage unit dimensions, H × W × D	1012 × 639 × 750 mm
	High-voltage unit weight	125 kg

* dgt – least significant digit.

** The parameters in parentheses apply to the 17.5 versions of the system.

*** Inrush current may be greater. If the System is powered from a power supply source protected by an automatic circuit breaker, a minimum of 63 A (100 A for 17.5 version) breakers are required.

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

Intertek
ISO 9001
Certificate № 28 110 804001

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