HVTS-HP series

MOBILE HIGH-POWER HIGH-VOLTAGE TEST SYSTEMS

- **DC & AC test modes**
- **High power output**
- **Safe two-module composition**
- **Mobile design**
- **Graphic display and digital control**
- **Manual & automatic test cycles**
- **Internal memory for test results storage**
- **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, surge arresters, busbars, insulators, etc.) with DC (rectified) 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 internal memory of the system.

The systems feature an overcurrent, overvoltage and overheating protection.

[1] Depending on the model.

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high-voltage testing equipment

			HVTS-HP-100/100-7.5 (17.5)	HVTS-HP-140/100-7.5 (17.5)
DC testing parameters	Voltage	Output level	up to 100 kV	up to 140 kV
		Measurement error	± [3 % + 2 dgt*]	
	Current	Output level	up to 40 (80) mA**	up to 30 (60) mA
		Measurement error	± [3 % + 2 dgt]	
AC testing parameters	Voltage	Output level	up to 100 kV_{RMS}	
		Measurement error	± [3 % + 2 dgt]	
	Current	Output level	up to 75 (175) mA_{RMS}	
		Measurement error	± [3 % + 2 dgt]	
	Possible load capacitance @ rated output voltage		up to 2.4 (5.4) nF	
System parameters	Testing modes		▪ Manual ▪ Automatic	
	Voltage ramp up rate		0.5 … 4.0 kV/s, step 0.5 kV/s	
	Internal memory		32 test reports	
Interface	Monochrome graphical display		128 × 64 px	
	Interface languages		▪ English ▪ Russian ▪ Other (option)	
Safety	Protection		▪ Over-voltage tripping ▪ Over-current tripping ▪ Thermal overload warning ▪ Low pressure warning	
Power supply and consumption	Supply voltage		230 V ± 10 %, AC	
	Supply frequency		50 Hz	
	Power consumption		up to 9 (19) kVA	
	Current consumption		40 (82) A***	
Physical	CU dimensions, H × W × D		1063 × 735 × 561 mm	
	CU weight		82 (127) kg	
	HVU dimensions, H × W × D		1012 × 639 × 750 mm	
	HVU 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 for are for illustration purposes only.

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Intertek ISO 9001 Certificate № 28 110 804001

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