

HVT-D-series

Digital high-voltage test system



(control unit)



(high-voltage unit)

MAIN FUNCTIONS

- » The testing voltage, current, withstand voltage time are pre-settable. It can be operated automatically and manually.
- » The voltage can be regulated continuously; the wave form isn't distortion and abnormality.
- » With zero position function, voltage upper limit, low limit, over-current, over voltage breakdown protective function.
- » The alarm has sound and light.
- » When the test is over, it can return to zero automatically. After withstand high voltage test, it can be discharged apace.
- » Adopt PLC control, memory: can storage 32 and more test results.

TECHNICAL SPECIFICATIONS

Testing	HVT-100/100-5D	HVT-100/140-7.5D	HVT-100/140-17.5D
Output voltage	100 kV (AC) / 100 kV (DC)	100 kV (AC) / 140 kV (DC)	100 kV (AC) / 140 kV (DC)
Output current	50.0 mA (AC) / 5.0 mA (DC)	75.0 mA (AC) / 5.0 mA (DC)	175.0 mA (AC) / 5.0 mA (DC)
Voltage accuracy	1.0 %		
Leakage current meter	10 μ A...5 mA (DC)		
Operation	30 min ON, 30 min OFF, 8 cycles per day		
Environment	indoor (stationary)		

General

Input	230 V $\pm$ 15 %, 50 Hz, 5.0 kVA (7.5 or 17.5 kVA)
Ambient temperature	+5...+50 °C (for operating) -10...+50 °C (for storage)
Relative humidity	$\leq$ 90 % (no condensation)
Internal storage	4G
Interface connection	USB2.0, RJ-45
Operation system	Windows

Voltage regulator

Input rating	230 V, 50 Hz, 5.0 kVA (7.5 or 17.5 kVA)
Output rating	0 – 240 V, 20.83 A
Duty	30 min ON, 30 min OFF, 8 cycles per day
Efficiency	98 %
Brush	copper alloy
Limit switch	upper, lower, zero start
Cooling	dry and cooling by itself
Adjustable rate of rise	15 – 150 s for 0 – 100 %
Motor type	DC, permanent magnet
Drive mechanics	roller chain
Ground provision	STD brass bolt
Control interconnection	Mil style, multipin
Power interconnection	bushing / terminal board
Signal interconnection	coaxial BNC

General

Dimensions CU	1096×745×623 mm (it may vary depending on the model)		
Dimensions HVU	ø380×950 mm (it may vary depending on the model)		
Dimensions HVU with cart	1150×620×650 mm (it may vary depending on the model)		
Weight CU	85 kg	105 kg	130 kg
Weight HVU	75 kg (it may vary depending on the model)		
Weight HVU with cart	90 kg (it may vary depending on the model)		

Note: the voltage regulator is installed in the same cabinet of control

AC/DC Test Transformer

	HVT-100/100-5D	HVT-100/140-7.5D	HVT-100/140-17.5D
Output voltage	100 kV (AC) / 100 kV (DC)	100 kV (AC) / 140 kV (DC)	100 kV (AC) / 140 kV (DC)
Output current	50.0 mA (AC) / 5.0 mA (DC)	75.0 mA (AC) / 5.0 mA (DC)	175.0 mA (AC) / 5.0 mA (DC)
Distortion	<5 %		

General

Input voltage	0 – 240 V		
Rated capacity	5.0 kVA	7.5 kVA	17.5 kVA
Dimensions	ø380×950 mm (the whole) (could be changed) 1150×620×650 mm (transformer with trolley) (could be changed)		
Weight	75 kg (the whole) (could be changed) 90 kg (transformer with trolley) (could be changed)		
Cooling	SF6		

AC/DC Capacitive Divider

	HVT-100/100-5D	HVT-100/140-7.5D	HVT-100/140-17.5D
Voltage	100 kV (AC) / 100 kV (DC)	100 kV (AC) / 140 kV (DC)	100 kV (AC) / 140 kV (DC)
Measuring	the voltage can be indicated on the control panel		
Accuracy (AC)	1.0 class		
Capacitance	200 pF		
Resistance	400 MOhm		
Insulation type	dry		

General

Rated frequency	50 Hz
Dimensions (ø×H)	88×650 mm (could be changed)
Weight	10 kg (could be changed)