

## HVT-B-series

Basic 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, 4.3 inch colorful LCD, 480×272

## TECHNICAL SPECIFICATIONS

Testing	HVT-100/100-5B	HVT-100/140-7.5B	HVT-100/140-17.5B
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 $\mu$ A...5 mA (DC)		
Operation	30 min ON, 30 min OFF, 8 cycles per day		
Environment	indoor (stationary)		

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### 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)

### 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

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### General of Main Unit

Dimensions (HxWxD)	1096x745x623 mm	1096x745x623 mm	1296x745x623 mm
Weight	85 kg	105kg	130kg

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

## AC/DC Test Transformer

	HVT-100/100-5B	HVT-100/140-7.5B	HVT-100/140-17.5B
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 %		

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### 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-100/100-5B	HVT-100/140-7.5B	HVT-100/140-17.5B
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		

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### General

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