



# POWER ELECTRONICAL

Insulation Quality Testing Experts

<http://www.powerelectronical.com/>

## *PE-HVT-AMXX-YYY* *Automatic Hipot Tester AC/DC*

Insulation testing is very important for maintaining safety of user and equipment. Deterioration of insulation voltage below an acceptable point can sometime lead to hazards and electrical catastrophes. Hence standards demand the Insulation Testing of almost all electrical equipments, electrical products and their parts thereof. Insulation levels are different for different products and assemblies and are based upon their working voltage levels.

Power Electronical's PE-HVT-AM series of Automatic Hipot testers are build to test the Breakdown voltage of Insulation Dielectric, while ensuring that the user safety is never compromised. These testers are completely Automatic in operation...just program/select the test sequence...press Start...and the entire procedure is completed automatically including the Reset operation and printout! Power Electronical Hipot testers come in the largest variety of options AC, DC, AC&DC, and in a variety of Voltage (0-500kV) and Current (0-500mA) levels, to cater to different requirements of customers

### Features

- Max Voltage 0-500kV (continuously variable)
- Selectable AC o/p, DC o/p. DC polarity reversal possible
- Programmable current trip levels 10% to 100% of maximum
- World's only "True Vhipot set"...measures very HV secondary voltage across output terminal, instead of across HV primary
- Complete Automatic operation. Just select and Start!
- "Most accurate test set". 1% Accuracy over entire test range.
- Very high Resolution 0.01% of FSV of voltage
- Leakage current measurement from 100pA to FSV of current
- Insulation Resistance (IR) value measurement
- Polarisation Index (PI) test facility
- Programmable test time 0-99 mins
- Programmable voltage ramp rate from 1kV/sec to 5kV/sec
- Proof/Voltage withstand test possible with 10 break sequences
- Repetitive test sequence (up to 10 iterations) and average readings (from first to last), min, max and standard deviation.
- Safety features like ground check, zero start interlock and automatic reset incorporated for user safety
- User and object information included
- Touch panel, Backlit color LCD screen for comfortable user interface
- Integrated thermal Printer
- Internal memory for 100 test data storage and recall via USB port
- Programmable 25 custom test sequences as per requirement
- Remote user terminal available optionally, with operating distance range of 50m
- High Voltage 500kV digital meter (PE-HVM-500) 1% accuracy available optionally for on-site calibration

### Specifications

#### Input/Output

- Power Supply – Single Phase AC 200V-250V, or  
Single Phase AC 90V -150V
- Voltage output – Continously variable 0-FSV (steps of 0.01% of FSV)
- Display Voltage accuracy – 1%  $\pm$  2 digits ("True Vhipot test")
- Trip Current – programmable from 10% to 100% of FSV current, in steps of 1%
- Current Display – 100pA to FSV
- Display Current accuracy – 1% + 10 digits
- Insulation Resistance – 10M $\Omega$  to 10T $\Omega$

*PREVENTION is better and cheaper than CURE*  
*Trust the experts!!*

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## Programmable Parameters

- Stand time – 0 to 10 mins
- Test time – 0 to 10 mins
- Break Sequence – 10 break sequence (eg. go to 10kV > hold for 5 mins > go to 20kV > hold for 4 mins > go to 30kV > hold for 3 mins > go to 40kV > hold for 2 mins > go to 50kV > hold for 1 min > end test)
- Voltage Ramp-up – 1kV/sec to 5kV/sec (variable in steps of 0.5kV/sec)
- Sequence Repetition – 1 to 10 times

## Safety systems

- Interlock for Zero start
- Auto trip and reset

## Atmospheric

- Operating Temp – minus 10 deg C to +60 deg C
- Humidity < 90% non-condensing

## Physical

- Size – 450mm(W) × 310mm(D) × 360mm(H)
- Gross Weight – 50kgs (incl accessories), except packing

## Standard Accessories

Test equipment – 1 no

High Voltage Insulated test probes – 1 set

Crocodile pins – 2 nos

Connecting AC mains cable – 1 no

Printer roll – 1 no (already loaded)

User manual – 1 no

Test certificate – 1 no

Warranty Certificate – 1no (Standard warranty 1 yr)

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## Ordering Information

PE - HVT – AM XX – YYY

Where, XX means following options

AC – AC Hipot tester

DC – DC Hipot tester

AD – AC/DC Hipot tester

And, YYY means the following selectable options

YYY	FSV Voltage kV	FSV Current mA	VA rating VA
001	5	10	50
002	5	50	250
003	5	200	1000
004	5	500	2500
005	10	10	100
006	10	50	500
007	10	100	1000
008	10	250	2500
009	10	500	5000
010	20	10	200
011	20	50	1000
012	20	250	5000
013	20	500	10000
014	30	10	300
015	30	50	1500
016	30	150	4500
017	30	300	9000
018	50	20	1000
019	50	50	2500
020	50	100	5000

YYY	FSV Voltage kV	FSV Current mA	VA rating VA
021	50	200	10000
022	75	20	1500
023	75	50	3750
024	75	100	7500
025	100	20	2000
026	100	50	5000
027	100	100	10000
028	150	10	1500
029	150	20	3000
030	150	50	7500
031	150	60	9000
032	200	20	4000
033	200	50	10000
034	300	10	3000
035	300	20	6000
036	300	30	9000
037	400	10	4000
038	400	25	10000
039	500	10	5000
040	500	20	10000

Note – Power Electronical reserves the right to change product specifications for continual improvement. Please order a fresh copy of specs from [contact@powerelectronical.com](mailto:contact@powerelectronical.com), before placing new orders. Jurisdiction limits within territory of Republic of India only.

Our other Products are –

- Automatic Cap & Tan Delta test system 10kV / 12kV
- Manual C&DF test system 12kV
- Auto Oil Breakdown Voltage Tester 80kV / 100kV
- Motorised Oil BDV set 0-100kV
- 3-pc Oil Resistivity & DF test kit
- Insulation Testers (10M to 15T, 2% accuracy)
- High Voltage Breakdown testers (10kV-50kV)
- SF6 Gas filled Standard Capacitors (upto 1000kV)

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