

**Application:**

Every electrical equipment, apparatus or machines are provided with insulation between the live part and earth or between two or more different sections of live parts. This insulation is required to be tested at high voltage values as required by applicable standards. For electrical equipment, voltage withstand test at different levels is specified, which depends upon the working voltage of the equipment.

UDEY H.V. Testers are compact, rugged and portable test sets used for AC or DC dielectric breakdown testing. Typical applications include testing of transformers, switchgear, cables, capacitors, aerial motors platforms, hot sticks bucket bricks, vacuum bottles and other related equipment like vacuum interrupters, blankets, ropes, gloves, hydraulics hose, instruments transformers generators.

Description:

UDEY H.V. testers are specifically designed for safe and accurate measurement of leakage current to evaluate insulation integrity. These testers are portable, one end ground test systems, ideal for H.V. testing. Accurate leakage measurements are ensured by placing the current meter in the return of the H.V. path. Many features which UDEY provides as standard are either offered by competitors as optional features or not at all. Years of Design, engineering and manufacturing experience have made UDEY H.V. testers the most durable, easily operated and the best designed sets in the industry.

UDEYRAJ ELECTRICALS PRIVATE LIMITED

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Features:

- Panel mounted controls & indicators with easy to read legend.
- Continuously variable output from zero to full voltage.
- Low end ground test.
- Multi range analogue kV meter and current meter.
- Fast acting overload circuit breaker.
- Zero start interlock.

Design benefits:

- Rugged design.
- Multi range kV meter.
- Multi range current meter in return of H V Transformer.
- All meters calibrated to National Standards.
- HV 'ON' and 'OFF' push buttons.
- Continuously variable output voltage from minimum to maximum.
- Visual indication of Mains ON, HV OFF, HV ON.
- Metal cabinets powder coated.
- Meets I.S. 2584 requirements.

SPECIFICATIONS:

INPUT	:	220 Volts \pm 10 %, 50/60 HZ AC single phase.
RATING	:	100 % - 10 minutes and 50 % - continuous.
METERING	:	Analogue, linear scaled moving coil meters of 96 mm square. kV meter : Two ranges mA meter : Two ranges Accuracy of measurement: \pm 4 % of full scale.
TRIP	:	20% to 100% of rating adjustable.
OUTPUT CONTROL	:	One knob manual control.
COOLING	:	Air cooled epoxy resin cast up to 50 kV and oil cooled for 75 kV and above.
CONSTRUCTION	:	Sheet steel cabinets powder coated. Up to 30 kV : Single unit with lifting handles and rubber legs. 50 kV and above : Two unit on wheels.
ACCESSORIES	:	Mains cable 2 meter long. Operating manual with works test certificate. Inter connecting cables for two unit construction models.

STANDARD MODELS:

AC H V TESTERS		DC H V TESTERS		AC and DC H V TESTERS		
Model	Output: 50 HZ	Model	Output: Peak value	Model	Output-DC(peak Value)	Output-AC(50 Hz)
HJ-5-50	0-5kV / 50mA	HPD-3-20	0-3kV / 20mA	HPACD-5	0-5kV / 10mA	0-5kV / 10mA
HT-10-100	0-10kV / 100mA	HPD-5-20	0-5kV / 20mA	HPACD-10	0-10kV / 10mA	0-10kV / 10mA
HT-20-100	0-20kV / 100mA	HPD-10-20	0-10kV / 20mA	HPACD-20	0-20kV / 10mA	0-15kV / 10mA
HT-30-100	0-30kV / 100mA	HPD-20-20	0-20kV / 20mA	HPACD-30	0-30kV / 10mA	0-20kV / 20mA
HT-50-100	0-50kV / 100mA	HPD-30-20	0-30kV / 20mA	HPACD-50	0-50kV / 6mA	0-35kV / 12mA
HT-75-100	0-75kV / 100mA	HPD-50-15	0-50kV / 15mA	HPACD-75	0-75kV / 5mA	0-50kV / 10mA
HT-100-100	0-100kV / 100mA	HPD-75-10	0-75kV / 10mA	Testers with higher output capacity also manufactured.		

Specifications subject to change due to constant upgradation

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Optional features:

- External interlock provision.
- Multi range timer for easy withstand testing with visual indication.
- Visual + Audible alarms for test status - Breakdown or HV on.
- Digital kV and current meter.
- Motorized output control.
- Test leads.

Personnel Safety:

- Zero start interlock (operator must always raise voltage from zero. H.V. is switched on only when voltage control is brought to zero.).
- External interlock provision for wiring in additional safety interlocks breaking this circuit will prohibit the generation of HV-optional.
- MCB-magnetic overload protection.
- Visual + Audio alarms- optional.
- Overload circuit cut off.
- Over current protection: Protects the user and the test object excess current levels by shutting down the HV instantly. The overload sensitivity is continuously adjustable to allow testing of various test loads.
- Audible + Visual alarms indicate the status of the test, overload situation or a go / no-go failure-optional.