

## HVG High Voltage AC/DC Test Set



### Description

The High Voltage Test Set HVG or Di-electric Hi-Pot tester is highly reliable, accurate and rugged tool to check the quality of dielectric strength of the insulation in power cable, capacitors, transformers and many electrical components. This test also called as Dielectric breakdown test

The AC/DC Hi-Pot test is extremely important to identify the deterioration in the insulation as early as possible to take corrective measures.

The AC/DC Hi-Pot test is an important part and parcel of the electrical safety tests mandated by standards organization world-wide.

More than 80 per cent of faults in electrical and electronic systems are due to weak insulation caused by environmental factors such as dirt, grease, temperature stress, humidity, etc that affect the dielectric strength of the insulation material.

### Application

**DC Test :** DC high voltage tester is used to check die-electric strength of power cable, DC high voltage capacitors many others DC components.

**AC Test :** AC high voltage tester is used to check insulation properties of Transformers, Switchgear & Relays, Motors, Coils & Chokes, Generators, Capacitors, and other electrical AC apparatus in power transmission and distribution network OR manufactures .

### Features

- Fully protected operation with safety interlocks.
- Easy to perform AC / DC high voltage/ High pot test.
- Comprehensive safety operation.
- Continuously adjustable output voltage from 0 to 100%.
- Output over current tripping facility.
- Selectable current ranges for precise leakage current readings.
- Emergency off switching facility in case of any emergency.
- Supplied with separate control and high voltage unit.
- Timer provision to switch off the equipment automatically after the preset time setting.
- Pre-location cable faults in decay or voltage transient mode in with conjunction suitable pre-locator.
- Rugged construction and easy to carry on site.



## Working Principle

Connect the cable / device to HV test equipment with all safety precautions, especially reliable safety earth connection. Increase the output voltage gradually to avoid heavy inrush current to the cable / Device under test. Maintain the prescribed voltage for given period of time. The leakage current indication will give the dielectric strength of the insulation.

DC Test instrument are successfully used for pre-locating high resistance faults where surge / arc reflection methods fail to give results. This method is known as voltage coupler / Decay method.

## Function

Test Di-electric strength of cables installations with AC / DC high voltage. Same time DC high voltage test set are being

used to pre-locate high resistance cable faults under Decay or Voltage transient mode with suitable pre-locator unit.

## Standard Accessories

- HV Output Cable 10 sq mm single core screen cable 5 meter length with heavy duty clamp.
- Mains supply cord 3 meter length.
- Yellow / Green 10 sq mm earthing cable 5 meter length

Standard Warranty **One Year**

**Note : Other Combinations & Specifications to our esteemed Customers**  
**Availability in Open Frame or Close Frame**

## Specifications

Power Supply	230V AC $\pm$ 10%, 50 Hz, Single phase	Duty Cycle	3 min ON / 10 min OFF
Indication	Analog Meter / Digital LED display for output voltage (kV)	Timer Mode	Manually selectable as required
	Analog Meter / Digital LED display for output leakage current (mA)	Mode of Operation	Manual
	ON / OFF indication	Output Voltage Control	Controlled manually through variac
	Over Heat LED indication Over Current Trip LED indication	Working Temp.	0 Deg C ~ 55 Deg C
Protection	Circuit Bracker in Mains input	Storage Temp.	- 5 Deg C ~ 60 Deg C
	Variac Zero Inter Lock Over Current Trip Over Temperature Trip		

Model	DC		AC		Dimensions (L x W x H) mm	Weight (kg)	Type
	Rated Voltage (kV)	Rated Current (mA)	Rated Voltage (kV)	Rated Current (mA)			
HVG 40	40	20	-	-	525 x300x500mm	40 kg	Single Close
HVG 50	50	10	30	10	525x250x310mm	Cont. - 22 kg	Close
					570x465x850mm	HV - 80 kg	Close
HVG 70	70	10	-	-	525x250x310mm	Cont. - 22 kg	Close
					550x600x1100mm	HV - 95 kg	Close / Open
HVG 80	80	10	55	10	525x250x310mm	Cont. - 22 kg	Close
					550x600x1500mm	HV - 105 kg	Open
HVG 70S	70	15	75 rms	15	525x250x310mm	Cont. - 22 kg	Close
					550x600x1500mm	HV - 120 kg	Open
HVG 100	-	-	100	10	525x250x310mm	Cont. - 22 kg	Close
					550x600x1500mm	HV - 120 kg	Open

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