

HVG 40 High Voltage DC Test Set



Description

The DC HI-Pot Tester is highly reliable, accurate and rugged tool to check the quality of Di-electric strength of the insulation in cable, capacitors, transformers and many electrical components. This test also called as Di-electric breakdown test.

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

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

More than 80 percent 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

High voltage DC test set is used to check Di-electric strength of Cable, Transformers, Switchgear & Relays, Motors, Coils & Chokes, Generators, Capacitors, Wires & Cables, and other Electrical apparatus manufacturers or in power transmission and distribution network.

Features

- Fully protected operation with safety interlocks.
- Easy to perform DC high voltage test.
- Comprehensive safety operation.
- Continuously adjustable output voltage from 0 to 100%.
- Output over current tripping facility.
- Full current delivering capacity on load.
- Emergency off switching facility in case of any emergency.
- Selectable current ranges for precise leakage current readings.
- Built in auto discharge in case of mains power failure or equipment switch off.
- Timer provision to switch off the equipment automatically after the preset time setting.
- Pre-location cable faults in decay or voltage transient mode with conjunction suitable pre-locator.
- Rugged construction and easy to carry on site.



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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 equipment 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 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

Other models available

High Voltage Test Set HVG 5, HVG 10 HVG 20, HVG 30

Note : Other Combinations & Specifications to our esteemed Customers

Specifications

Power Supply	230V AC \pm 10%, 50 Hz, Single phase	Cooling	Air Cooled
Output Voltage	0-40 kV continuously variable	Duty Cycle	5 min ON / 10 min OFF
Output Current	5 mA, 10 mA & 20 mA manually selectable ranges	Timer Mode	Manually selectable as required
Indication	Analog Meter for output voltage (kV) Analog Meter for output leakage current (mA) ON / OFF indication Over Heat LED indication Over Current Trip LED indication	Mode of Operation	Manual
Protection	Circuit Bracker in Mains input Variac Zero Inter Lock Built in Auto Discharge Over Current Trip Over Temperature Trip	Output Voltage Control	Controlled manually through variac
		Working Temp.	0 Deg C ~ 55 Deg C
		Storage Temp.	- 5 Deg C ~ 60 Deg C
		Dimensions	525 (L) x 300 (W) x 470 (H) mm +Handle 50mm + Wheel 65mm
		Weight	40 kg Approx

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