

INTRODUCTION

"MERAVI" brand D.C. High Voltage Test Set is suitable for testing electrical insulation of condensers, electric cables, PIV of diodes and many other items like transformers, motors, switch gear products etc. The set is particularly applicable for testing electrical insulation at site where portability is vital.

SPECIFICATIONS

INPUT	230 Volts, 50 HZ, Single phase AC. 'OR' 415V 50Hz Three Phase
OUTPUT	Continuously variable from zero to 3 KV 'or' 5 KV 'or' 10 KV 'or' 15 KV 'or' 25 KV 'or' 30 KV 'or' 35 KV 'or' 40 KV 'or' 50 KV 'or' 60 KV 'or' 70 KV 'or' 75 KV 'or' 80 KV 'or' 100 KV 'or' 130 KV 'or' 150 KV 'or' 175 KV 'or' 200 KV 'or' 300 KV DC (Any One)
CAPACITY	Max Permissible transient current is 3/5 mA 'or' 10mA 'or' 20mA 'or' 30mA 'or' 50mA (Any One).
DUTY	Intermittent i.e. 5 Mins, 'ON' 10 Mins. 'OFF'. (Test Sets with other duty cycle can also be provided)
UNIT	Two 'or' Three units as per the design requirements.

CONTROL CIRCUITRY:

- Continuously variable auto transformers of suitable capacity.
- Output DC H.V. is measured by means of properly designed resistor chain along with analog micro-ammeter.
- Analog milli ammeter along with press to read push button switch for measurement of leakage current.
- Mains 'ON' - 'OFF' Switch & H.T. 'ON' - 'OFF' push button switch incorporated.
- Automatic tripping mechanism for protecting the H.V. transformer against over loading.
This tripping device is incorporated both on L.T. side & H.T. side.
This tripping device which senses the leakage current to be higher than the preset value (1mA or 10mA) & trips the entire H.T. Circuit.
- Zero start inter locking will be provided to ensure that the H.V. Circuit cannot be energized unless the voltage regulator is first returned to Zero position.
- Lamp to indicate L.T. ON.
- Lamp to indicate H.T. ON.

All the components of control CKT. Are housed with in a suitable metal enclosure with proper nomenclature & input output terminals.

HIGH VOLTAGE ASSEMBLY

D.C. H.V. is generally obtained by simple rectification of A.C. H.V. or by multiplication of relatively low AC H.V. by proper voltage multiplication CKT. As is found suitable for a particular D.C. H.V. diode bank along with surge suppressor are used in conjunction with H.V. capacitors for multiplier CKT.

ACCESORIES

A H.V. bushing with inside surge suppressor device.

A discharge rod will be provided with the set.

All the above components of the HV unit are housed and wired in a highly finished nicely painted sturdy sheet metal cabinets with proper insulation.

N.B. - DC High Voltage Test Set of Any other capacity, ratings and duty cycle, other than the ones mentioned above, can also be designed. Please send us the specifications you require so that we can have it designed and send the details to you.

Also AC and DC Combined High Voltage Test Sets can also be provided. Please send us the specifications you require so that we can have it designed and send the details to you.

*Technical Specifications & Appearance are subject to change without prior notice

