

MILLI VOLT DROP TEST SET

0-6V AT 200A



INSTRUCTION MANUAL



شركة الإنشراح للإمدادات الكهربائية (ذ.م.م.)

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TECHNICAL SPECIFICATIONS:

Input Voltage	:	200/230-V, 50 Hz, AC supply.
Input Current	:	3.5 Amps
Output Current	:	0-200 Amps Continuous
Output Voltage	:	0-6 Volts OCV
Cooling	:	Air Cooled
Rating	:	Continuous For Testing
Ripple	:	Within 5%
Accuracy	:	$\pm 1\%$
Metering	:	96 Sq. mm Moving Coil type Ampere Meter & 96 Sq. mm Digital mV meter.
Leads	:	(i) Lead with Crocodile - 1.5 mtrs. (ii) Current Leads - 3 mtrs.

CONSTRUCTION:

The equipment has been designed to deliver DC output for continuous use for milli Volt Drop or any DC application etc. The Main Transformer and Rectifier stack (silicon diode & W/heat sink) and control panel are housed in single unit.

The Unit is naturally air cooled.

The equipment is housed of MS Sheet & incorporates the following

Main Transformer:

It is double wound transformer with low voltage current winding as per the requirement.

Rectifier Cubicle:

It is a full wave rectifier with filter circuit.

Silicon diodes with hole storage condensers mounted on heat sinks have been for rectification and are air cooled.

RCL filter on DC side.

Short circuit protection:

The fuse have been provided on AC side to protect the unit against short circuit.

Output connection:

DC output has been brought out on suitable Bus-Bars.

The Front Control Panel Feature the Following:

- I. Input ON-OFF Switch with fuse
- II. Input On Indicator
- III. Push Button to Cut Off DC Supply
- IV. Ampere Meter of 0-200 A with shunt (Moving Coil Type).
- V. mV Meter (Digital)
- VI. 'DC' ON Indicator.
- VII. 'DC' OFF Indicator.
- VIII. Variac knob.

OPERATION:

1. Connect the unit to proper input supply.
2. Connect job to be tested to the bus-bars of the unit using proper size of cable.
3. Connect Calibrated leads across the Joint.
4. Press the push button to activate DC supply.
5. Raise Current to the desired level.
6. Read the milli Volt Drop.
7. In case milli Volt Drop is more across the joint the anticipated tighten again to ensure that there is no gap and test again.
8. Cut off DC by pressing push button after completing the test.