

SG-V series

DC Dielectric Test Sets



SG-V Series DC Hipot Testers provide an economical solution to DC field testing of power cables, terminations, motors, generators and other electrical apparatus. Every model from 60KV to 120KV feature single-piece construction complete with input line cord, Every models from 120KV to 200KV feature two-piece construction complete with input line cord, interconnect cable and high voltage output cable. Convenient cable storage space is provided in the control box.

The **SG-V Series DC Hipot Testers** feature accurate kV meter readings regardless of load current. Accurate voltage and current measurements are assured since voltage readings are taken directly at the output of the high voltage transformer and current measurements are taken in the return leg. Safe discharging of both the test object and the high voltage transformer occur whenever the high voltage is turned off. Output power is provided by means of a full-wave voltage doubling rectifier circuit with silicon rectifiers.

Features (60-300KV)

- **Rugged and portable** construction
- **Shielded output** cable
- **Full-wave voltage** doubling rectifier circuit
- **Zero start interlock** and **guard circuit**
- **Internal discharge solenoid**
- 1mA reference voltage of magnetic blow out arrester test
- **10 mA current rating** for cable charging
- Using as power supply of laser, also electrostatic painting
- **No internal leakage** at full load
- **Instantaneous** overload relay
- **Surge-limiting resistors** in HV output

Benefits

- **Ideal for field testing** – lightweight, compact, and rugged makes it suitable for field oriented applications.
- **Operator Safety** - the power supply and test object are automatically grounded when high voltage is turned off and there is no exposed high voltage
- **Simple to Use** - a minimal amount of setup time and a simple control panel allows simple testing every time
- **Accurate Leakage Current Measurement** – while guard circuit eliminates stray leakage currents



Technical Specifications

| Type \ Technical | 60/2 | 100/2 | 120/5 | 200/5 | 100/200 4/3 | 200/300 3/2 | 200/400 6/3 | 300/600 6/3 | Others |
|------------------------------|---|-------------|---------------------------|--------------|----------------|----------------|----------------|----------------|--|
| Output voltage(kV) | 60 | 100 | 120 | 200 | 100/200 | 200/300 | 200/400 | 300/600 | Don't fit what you are looking for, please ask for the custom design |
| Output current (mA) | 2 | 2 | 5 for 5 min 2 for Cont | 5 | 4/3 | 3/2 | 6/3 | 6/3 | |
| Output power (W) | 120 | 200 | 600 | 400 | 600 | 600 | 1200 | 1800 | |
| Charging Current (mA) | 3.0 | 3.0 | 7.5 | 7.5 | 5.0 | 4.5/3.0 | 9.0/4.5 | 9.0/4.5 | |
| Total Weight (kg) | 4 | 4 | 6 | 4.6 | 4.6 | 6 | 6 | 6 | |
| Height(mm) | Φ80 ×470 | Φ80 ×570 | Φ110 ×950 | Φ110 ×810 | Φ110 ×950 | Φ110 ×820 | Φ134 ×1600 | Φ190 ×2600 | |
| Voltage Doubling Weight (kg) | 4 | 4.8 | 12.6 | 9 | 8 | 12.6 | 14 | 22 | |
| Working Power Supply | AC 220V±10%;50/60Hz | | | | | | | | |
| Ripple | ≤1.0% | | | | | | | | |
| Accuracy | ± 1 LSB | | | | | | | | |
| Working Method | Interrupted use; Rated load 30min; 1.1time of rated voltage:10min | | | | | | | | |
| Environment Temperature | -15℃~50℃ | | | | | | | | |
| Storage Temperature | -15℃~65℃ | | | | | | | | |
| Relative humidity | 40℃, ≤90% | | | | | | | | |

Product Show:



1200kV/30mA DC Dielectric Test Sets



1500kV/40mA DC Dielectric Test Sets

We also can produce DC Hipot Testers up to 1500KV.
If you have special requirement, Please contract us.

For further information please contact:

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