

# 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
- **Three range** voltmeter
- **Four range** current meter
- **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	120/2	200/2	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	200	100/200	200/300	200/400	300/600	Don't fit what you are looking for, please post a buying lead.
Output current (mA)	2	2	2	2	5	4/3	3/2	6/3	6/3	
Output power (W)	120	200	240	400	400	600	600	1200	1800	
Charging Current (mA)	3.0	3.0	3.0	3.0	7.5	5.0	4.5/3.0	9.0/4.5	9.0/4.5	
Total Weight (kg)	4	4	4	4	4.6	4.6	6	6	6	
Height(mm)	Φ80 x470	Φ80 x570	Φ80 x640	Φ110 x810	Φ110 x810	Φ110 x950	Φ110 x820	Φ134 x1600	Φ190 x2600	
Voltage Doubling Weight (kg)	4	4.8	5.2	7.5	9	8	12.6	14	22	
Working Power Supply	AC 220V±10%;50Hz									
Survey Voltage Error	1.0%(full range)± 1word, Highest resolution 0.1%kV									
Survey Current Error	1.0%(full range)± 1word, Highest resolution 0.1%uA									
Voltage Installation Error	≤1.0%									
0.75 Cut Error	≤0.5%									
Ripple factor	≤1.0%									
Ripple Coefficient	AC ±10%, ≤0.5%									
Working Method	Interrupted use; Rated load 30min; 1.1time of rated voltage:10min									
Environment Temperature	-15℃~50℃									
Relative humidity	25℃, ≤90%									
Height above Sea Levelness	Lower than 2500m									

**Product Show:**



**1200kV/30mA DC Dielectric Test Sets**



**1500kV/40mA DC Dielectric Test Sets**

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

**For further information please contact:**

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