



## SPECIFICATIONS

### Model DP 801 Series High Voltage DC Withstand Test Sets

Version 2.0, 08-10-2012

DP 801 Series high voltage DC Withstand test sets, provide DC high voltage source up to 60KV for checking the quality of power cables, insulators, transformers, motors, switchgear and capacitors. DP 801 Series test set is compact, its control module and HV tank can be put into one suitcase. DP 801 series have three models, DP801/2 with 2mA leakage current, DP801/3 with 3mA leakage current, DP801/5 with 5mA leakage current.

#### Product Features:

- ✚ Full-wave rectification
- ✚ Digital metering and display
- ✚ High accuracy, low ripple ratio
- ✚ Air-insulated, Epoxy resin cylinder
- ✚ Fast Charging for high capacitance samples
- ✚ Continuously variable test voltage
- ✚ With 0.75UDC1mA function button, zinc oxide arrester can be measured.
- ✚ Small in size, light weight, both control module and high voltage module can be put into one suitcase .

#### Technical Specifications:

- ✚ Input Power
  - ✧ Nominal 220Vac  $\pm 10\%$ , 50Hz, normal value
  - ✧ Nominal 220Vac 60Hz, subject to made to order
- ✚ Output , Size & Weight

	DP801/2	DP801/3	DP801/5
DC Voltage Output	0-60KV	0-60KV	0-60KV
Leakage Current	2mA	3mA	5mA
Rated Capacity	120W	180W	300W
Max.Charge Current	3mA	4.5mA	7.5mA
Working Cycle	2mA for 30 minutes	3mA for 30 minutes	5mA for 30 minutes
Voltage Stability	Less than 1% <sup>Ⓒ</sup>	Less than 1% <sup>Ⓒ</sup>	Less than 1% <sup>Ⓒ</sup>
Ripple ratio	less than 0.5%	less than 0.5%	less than 0.5%
HV Tank Size	Dia.86mm,H:400mm	Dia.86mm,H:400mm	Dia.86mm,H:500mm
HV Tank Weight	2.5Kg	2.5kg	4.5kg
Control box Weight	2kg	2kg	4.5kg

Remark: Voltage Stability  $\leq 1\%$  precondition power input voltage variation  $\leq 10\%$

- ✚ Voltmeter/Ammeter display accuracy:

- ◇ Voltmeter display accuracy:  $\pm(1\% \text{ reading} \pm 0.2\text{KV})$
- ◇ Ammeter display accuracy:  $\pm(1\% \text{ reading} \pm 0.2\text{byte})$
- ✚ Overload Capability:
  - ◇ Duration 10 minutes for 110% rated voltage, no-load voltage condition
  - ◇ The max. Charge current: refer to the values above
- ✚ The capacitance for object tested: No limited, The max. Charge current: refer to the values above
- ✚ Working Condition Required:
  - ◇ Working temperature:  $-10^{\circ}\text{C}$  to  $40^{\circ}\text{C}$
  - ◇ Relative humidity:  $\leq 85\%$  @  $25^{\circ}\text{C}$ , no dew
  - ◇ Above Sea Level: less that 1500m



Model DP801/2 &amp; DP801/3



Model DP801/5

### Acknowledgement for Order

- ✚ For DP801 Series order
  - ◇ Must be confirm which model you will order, DP801/2, DP801/3 or DP801/5
  - ◇ If object tested is cable, current resisting resistor should be ordered together
  - ◇ Power input with frequency 60Hz are available subject to made to order.
- ✚ More models and their brief specifications to be listed

Model	Voltage Output	Output Current(220Vac Input)
DP802 Series	0~120KVdc	2mA,3mA and 5mA for 30 minutes available
DP803 Series	0~200KVdc	2mA,3mA and 5mA for 30 minutes available
DP804 Series	0~300KVdc	2mA,3mA and 5mA for 30 minutes available
DP805	0~400KVdc	5mA 30 minutes