

ZGF DC High Voltage Generator

Features

- 1) High accuracy and reliability: high frequency voltage is boosted by multi-double rectifier. The voltage value is stable and high accuracy. The voltage booster circuit is simple which make the tester is high reliable.
- 2) Small size and light weight: one person can carry the largest DC HV generator (less than 200kV/2mA). That makes the application of the tester simple and easy.
- 3) Perfect seal by metal housing make the high voltage booster has strong mechanical performance and high insulation ability.
- 4) High voltage circuit is protected by metal shell which is connected to earth. That makes the application of the tester is safety enough.
- 5) Protection circuit avoid the wrong operation of tester. All test should start from zero voltage. If the regulator of voltage is not at zero position the tester will be disenabled when switched on.
- 6) The leakage current at HV side is measured by digital micro ampere meter. The maximum error of meter can be assured is not more than 1uA.



Technique index

- 1) Power: AC220V+10%, 50Hz+1%
- 2) Output high voltage indicator error: $<1\% \text{Readings} + 1D$
- 3) Output current indicator error: $<1\% \text{Readings} + 1D$
- 4) Ripple contain factor of high voltage: $<0.5\% \text{ Readings} + 0.05\% \text{Full scale}$
- 5) 0.75 times output voltage indicator error: $<1\% \text{ Setting value, can be locked}$

The model of ZGF is defined as ZGF Max voltage / Max current. Such as ZGF 200kv/2mA stand for the maximum voltage output is 200kv and the maximum current is 2mA

Table 1 Detail parameters for ZGF series

Model	Rated Output DC Voltage (KV)	Rated Output DC Current (mA)	Rated Output Power (W)	Voltage Booster Height (m)	Weight (kg)
ZGF-60	60	2	120	0.5	16
	60	3	180	0.5	
	60	10	600	0.5	

ZGF-120	120	2	240	0.8	20
	120	5	600	0.8	
	120	10	1200	0.8	
ZGF-200	200	2	400	1.2	26
	200	5	1000	1.2	
	200	10	2000	1.2	
ZGF-300	300	2	600	1.7	31
	300	5	1500	1.7	
	300	10	3000	1.7	

Above model are the common requirements. It can also be customized for different voltage and current outputs.