



GDCL-V Impulse Voltage Current Test System



Product Description

It is mainly used for composite wave testing of level III SPD, to generate bigger lightning impulse and current. This model 20kV/10kA is designed according to IEC61000-4-5 and GB/T17626.5-1999, the stipulation of Voltage wave&combination waveform, and signal generator features and performance, coupling and decoupling network. Also it is designed according to IEC61643-11 and GB/T18802.1-2002, the stipulation of Level I and II SPD impulse voltage testing, and level III SPD composite wave testing.

Features

1. Waveform requirement and output range

- Short-circuit current I_{sc} : wave-front time $8\mu S \pm 10\%$, half peak time $20\mu S \pm 10\%$, peak value $\pm 10\%$
- At wave crest, $\geq 5\%$ peak value of Current overshoot or vibration is not permitted. If current wave has reversed polarity vibration, then $\leq 20\%$ peak value. Short-circuit current peak value 1kA-10kA.
- Virtual impedance: 2Ω

2. Pointer voltmeter and digital voltmeter display for charging voltage. Positive shock and negative shock can be realized.

3. With impulse current display, accuracy $\pm 1\%$

4. Output voltage measurement

- With impulse voltage divider (voltage ratio accuracy $\pm 1\%$), output to BNC socket of panel, for oscillograph connection.

5. Protection device

- The instrument has enough safety device, ensure safe operation.

Specifications

Rated parameters

- Power input: 220V, AC, 5kVA
- Rated charging voltage: 20kV
- Total capacitance: $9\mu F \times 1$
- Rated capacity: 18kJ.