



GDCY Series Impulse Voltage Test System



Product Description

GDCY series Impulse Voltage Generator can produce a wide range of voltage and energy to simulate waveform such as lightning impulse, lightning clipped wave, switching impulse and so on, enable to carry out various forms of impulse test for high voltage power equipment, cooperate with steepening device can carry out steep wave test on the insulator (insulator string).

Features

- Complete equipment and wide voltage levels in the whole set of device .
- Small electric inductance in the return circuit of the impulse voltage generator,A band-stop filtering is adopted so that a standard impulse wave is still generated even under a large capacity load, and large load capacity.
- Large in voltage utilization coefficient.
- Convenient in wave adjustment, simple in operation, excellent in synchronization performance and reliable in motion.
- An automatic control technique is adopted in the constant-current charge,which is high automation and strong anti-interference capacity.
- A digital measurement and analysis system for the impulse test data are adopted,which increase the technical level and the efficiency of the impulse voltage tests.

Specifications

Impulse voltage grade	100kV-7200kV
Standard lightning wave	1.2±30%/50±20%μS
Peak oscillation	<5%
Standard switching wave	250±20%/2500±60%μS
Virtual front time of oscillating lightning wave	≤15μS
Virtual front time of oscillating switching wave and virtual front time of oscillating switching impulse wave	15μS-1mS
The minimum output voltage	≥10%Un

Charging voltage instability	$\leq \pm 1\%$
Synchronizing range	$\geq 20\%$
Synchronous discharge error rate	$< 2\%$
Ignition range	10%~100%
Working time	$\geq 70\%$ UN Discontinuous work (charge-discharge 300s/time) $< 70\%$ nn Continuous work (charge-discharge 120s/time)
Generator efficiency: lightning wave (no load)	$\geq 90\%$
Time to chopping	2~5 μ S