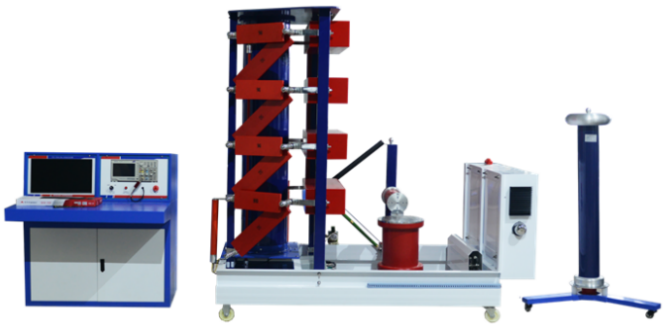
RDCJ-DY Series High Voltage Lighting Impulse Generator



RDCJ-DY series High Voltage Lighting Impulse Generator is used for impulse voltage test of the full-wave, lightning impulse voltage chopped wave and operation impulse voltage wave which apply to electrical equipment, etc. Multiple waveform impulse voltage generators can produce eight kinds of standard lightning waves: operation waves, lightning chopped waves, oscillating lightning waves, oscillating operation waves, line insulator steep waves, composite insulator steep waves, and transformer induction operation waves. The technology index accords with national and IEC standards is in the leading position at home and has reached an advanced level globally.

✧ Product Features

1. Complete sets, full voltage classes.

2. Small loop inductance, taking the band elimination filter measures, still produces a standard impulse wave in the large-capacity load. Large load capacity, high voltage utilisation, convenient to adjust wave.

3. Simple operation, excellent synchronisation performance, reliable action.

4. Constant current charging technology, high automation, and strong anti-interference performance.

5. Digital measurement and analysis systems and computer online processing systems for impulse test data greatly improve test technology and efficiency.

✧ Product specifications and technical parameters

Standard Voltage	Impulse Capacitance(μF)	Classes Capacitance(μF)	Impulse Energy(kJ)	Classes Voltage(kV)	Class	Weight(kg)
±300~±900	0.133~0.111	0.4~1	6~45	±100	3~9	547~1378
±1000~±1600	0.05~0.0937	0.5~1.5	25~120		10~16	1366~1880
±1800~±2400	0.056~0.0833	0.5~1	90~240	±200	9~12	7353~11574
±2800~±3200	0.0357~0.0625	0.5~1.5	140~320		14~16	10266~15680
±3600~±4800	0.0278~0.03125	0.5~2	80~240		18~24	15480~23500

Technique Parameters	
Items	1,1.2/50μs 2,250/2500μs 3,2~5μs etc waveforms
Output Peak Value	100~10000kV
T1 Wave Front Time	1.2μs±30%
T2 Wave Tail Time	50μs±20%
Reverse Overshoot	<20%
Voltage Polarity	Positive/negative(manual shifting)
Waveform Shift	Auto shifting
Charging Time	10s~999s, set arbitrarily
Instability of charging voltage	<1%
External Input	50Hz/60Hz
Trigger Method	Auto or manual, can single trigger
Trigger Maloperation rate	<1%
Trigger Range	100% rated charging voltage
Display Screen	17-inch TFT color screen
Measurement Display Precision	Better than 3%
Tested Product Residual Voltage	<5kV
Voltage Measurement	Use damped impulse divider
Oscilloscope	TBS series, optional
Insulation Strength	≤500V RMS (common to ground refer PE)
General Parameters	
Power Source	AC220V±10%, 50/60Hz
Environment Temperature	-10±40ºC
Relative Humidity	35%-85% RH (no condensation)
Ground Resistance	≤0.5Ω
Structure Type	Open structure, independent control cabinet and main body, optical fiber connection
Control Console	1.8M(length)*1.2M(height)*1M(width)
No conductive dust, no fire and explosion hazards, no corrosive metal and insulation gas, waveform	
of power voltage is sine wave, distortion <5%.	
Equipment model selection parameters	

Nominal Total Voltage kV	Class	Impulse Capacitance (μF)	Impulse Level Capacitance(μF)	Total Charging Power(kJ)	Application
±300~±900	3~9	0.133~0.111	0.4~1	6~45	35~110kV

±1000~±1600	10~16	0.05~0.0937	0.5~1.5	25~120	<220kV
±1800~±2400	9~12	0.056~0.0833	0.5~1	90~240	220kV~500kV
±2800~±3200	14~16	0.0357~0.0625	0.5~1.5	140~320	
±3600~±4800	18~24	0.0278~0.03125	0.5~2	80~240	
Minimum time difference between pulse		30s		40s	
Generator capacity per level		≤1600kV use 100kV single side charging 1		≥1600kV use 100kV double sides charging	

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