

Multi-functional lightening surge simulator

SG 5020G



As per

- > IEC 61000-4-5
- > IEC 61643-1
- > IEC 61010
- > IEC 60664
- > GB/T 17626.5
- > ITU K44
- > ITU K45
- > ITU-K21_2008
- > ANSI/IEEE C62.41

Description

Automatic 20kV/20kA multiple-function lightning surge simulator SG-5020G is combined with Haefely layout. Ball gap discharging mode is applied for discharge main switch. Multiple pulse waveforms can be output by replacing wave regulating module simply. One simulator can conduct lightning surge test for all kinds of standards for different industries.

Features

- > color touch screen 7 inch LCD
- > PLC controlled automatic control system
- > intelligent HV mains charging mode
- > discharging ball-gap switch
- > automatic judgment of multiple malfunctions, visual and audible alarm
- > RS232 communication port for remote control
- > internal MDO3012 oscilloscope, automatically calculate waveform parameters with measurement and analysis system
- > internal safety test box to make components test safer
- > 19 inch standard cabinet installation

Industries

- | | |
|-----------------|--------------|
| > Communication | > Technology |
| > Telecom | > Military |
| > Medical | > Avionics |
| > Broadcast | > New energy |
| > Railway | |

Combination wave module (1.2/50μs, 8/20μs)	
Output voltage	0.5~20kV ±10%
Output polarity	+/-/positive first (or negative first)
Output voltage wave	1. 2±30%/50±20%μs
Output current wave	8/20±20%μs
Output impedance	2Ω (±0.25Ω) (with external 0.3Ω output impedance)
Output short circuit current	0.25~10kA ±10% (with external 0.3Ω output impedance)
Current wave module (8/20μs)	
Charging voltage	0.5~8kV ±10%
Output polarity	+/-/positive first (or negative first)
Output current wave	8/20±20%μs
Output impedance	0.4Ω
Output short circuit current	1.25~20kA ±10%
Current wave module (10/350μs)	
Charging voltage	0.5~10kV ±10%
Output polarity	+/-/positive first (or negative first)
Output current wave	10 (-10%+100%) /350±20%μs
Output impedance	13.33Ω
Output short circuit current	37.5~750A±10%
Current wave module (10/1000μs)	
Charging voltage	0.5~10kV ±10%
Output polarity	+/-/positive first (or negative first)
Output current	10 (-10%+100%) /1000±20%μs

General data	
Measurement display resolution	Better than 1%
Trigger mode	Sync or async, automatic or manual, single trigger available
Power supply	AC220V ± 10%, 50/60Hz
Temperature	-10~+40℃
Humidity	35%-85%RH (no condensation)
Dimension	W600XD950XH1749mm
Weight	Approx. 300kg
Accessories	
Fuse 10A	1
Current sensor TR1025 (internal)	1
Three-core power cord	1
braided strap 3m	1
Test cable 6mm2×0.35m red clamp for one end, plug for the other end	1
Test cable 6mm2×0.35m black clamp for one end, plug for the other end	1
Test cable 6mm2×0.35m green clamp for one end, plug for the other end	1
Short connection cable 6mm2×0.135m red Plugs for two ends	1
Test certificate	1
User manual	1
Warranty report	1

Technical parameters

wave	
Output impedance	40Ω
Output short circuit current	12.5~250A±10%
Communication wave module (10/700μs, 5/320μs)	
Output voltage	0.5~10kV ±10%
Output polarity	+/-/positive first (or negative first)
Output voltage wave	10±30%/700±20%μs
Output current wave	5±30%/320±20%μs (with external 25Ω output impedance)
Output impedance	15Ω(±0.25Ω), 40Ω(with external 25Ω output impedance)
Output short circuit current	250A (connect 25Ω output impedance)

Optional accessories	
Oscilloscope	MDO3012
Current probe	HILOK TR1025 10kA
Peak acquisition	Current and voltage peak acquisition system, touch screen display (internal)
Waveform measurement software	TEST3000, for calculation, restore and compare waveform parameters
Control software	MCS3000 for remote control, support windows xp, 2000, 7
CDN	SGN5020, 20kV combination wave, three-phase 20A, superimposition manually



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