

Multi-functional Surge Test Bench

SG5030G



As per

- > IEC61000-4-5
- > IEC 61643-1
- > GB/T17626.5
- > GB/T16927.1
- > ITU K21
- > IEC61010
- > IEC60664
- > ITU K44 ITU K45

Summary

Fully automatic 30kV/30kA multi-functional surge test bench SG-5030G combines Switzerland Haefely structure, the discharge switch uses the ball gap discharge mode, which can meet multiple kinds of surge waveforms with international level advanced technology. This system can fully meet IEC61000-4-5, GB/T17626.5, IEC/EN 61010, IEC/EN 61643-1, IEC/EN60664, ANSIC62.41/45, GB/T16927.1, ITU K20, ITU K44 and ITU K45. Waveforms: combination wave (1.2/50us 8/20us) and current wave (8/20us, 10/350us, 10/1000us), also can be customized according to customer requirements.

Feature

- > LCD display and touch screen with easy to operate
- > Programmable high voltage power supply with high stability and display the breakdown current and voltage
- > With imported non-inductance high power resistance to ensure surge waveform consistency
- > Automatically switching positive or negative polarity
- > Freely set the surge injection phase angle 0-360 °
- > Internal current and voltage probe, BNC connection to oscilloscope to observe waveforms
- > Optional for kinds of waveform module
- > RS-232communication interface, for remote control, optional for measurement control system software

Application

- > Communication
- > Information technology
- > Telecom
- > Military
- > Medical
- > Aviation
- > TV and Broadcast
- > New energy power
- > Railway
- > Electric Vehicle

Technical parameters	
Combination wave (1.2/50us, 8/20us)	
Open-circuit Voltage	2~30kV ±10%
Output voltage waveform	1.2±30%/50μs±20%
Output current waveform	8/20μs±20%
Output impedance	2Ω (±0.25Ω)
Short circuit Current	1~15kA ±10%
Current waveform (8/20us)	
Charging voltage	2~15kV
Output current waveform	8/20μs±20%
Output impedance	0.5Ω
Output short circuit current	4~30 kA
Current waveform (10/350us)	
Charging voltage	2~15kV
Output current waveform	10 (-10% + 100%) /350μs±20%
Output impedance	13Ω
Output short circuit current	0.15~1.1 kA
Current waveform (10/1000us)	
Charging voltage	2~15kV
Output current waveform	10 (-10% + 100%) /1000μs±20%
Output impedance	40Ω
Output short circuit current	0.15~0.35kA
Voltage waveform (1.2/50us)	
Output voltage	2~30kV ±10%
Output voltage waveform	1.2μs/50μs
Output impedance	200Ω-500Ω
General parameters	
Measurement display accuracy	Better than 1%
Trigger mode	Sync or Async; Auto or manual; available for single trigger
Working power supply	AC 110V/220V(±10%), 50/60Hz (AC 220V in China)
Environment temperature	15-35°C
Relative humidity	45%~75%
Air pressure range	86kPa - 106kPa
CDN (external)	Optional for three phase or single phase CDN
Dimensions	19inch 35U (600x800x1820mm)



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