

Automatic lightening surge simulator

SG 5010H



As per

- > IEC 61000-4-5
- > IEC 61643-1
- > GB/T 17626.5
- > GB/T16927.1
- > ITU-T K21
- > ITU-T K44

Description

SG5010H automatic lightening surge simulator is based on 3ctest third-generation intelligent multi-functional simulator. With programmable controller and computer technology, it simplifies system constitution and enhances system reliability during high voltage and current test. Color touch screen with good human-machine interface and easy operation makes test easier by only setting parameters on setting page. It is featured with high system integration, easy operation and save time. With optional intelligent measurement and acquisition system, peak voltage and current can be display on LCD.

Features

- > color touch screen 10 inch LCD; > intelligent HV mains charging mode;
- > automatic control system with computer technology
- > automatic judgment of failures, audible and visual alarm
- > contactless discharging switch, no discharging noise
- > optional MDO3012 oscilloscope with measurement and analysis system to calculate waveform parameter automatically
- > online peak voltage and current acquisition system, LCD display (optional)
- > internal safety test box to make test safer

Industries

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

Combination wave parameters	
Open circuit voltage	
Voltage peak	300V~6Kv/10kV(±10%)
Front time	1.2 μ s (±30%)
Duration	50 μ s (±20%)
Short circuit current	
Current peak	150A~3kA/5kA(±10%)
Rise time	8μs (±20%)
Duration	20μs(±20%)
Analog impedance	2Ω±0.25Ω
Output polarity	+/-/positive first/negative first
Network (internal)	Optional single phase or three-phase automatic CDN
Voltage wave parameter	
Output voltage	300V ~6Kv/10kV ±10%
Output impedance	500Ω±10%
Output polarity	+/-/positive first/(or alternative)
Output voltage wave	1.2 ±30% 50 μ s ±20%

Optional units	
Oscilloscope	MDO 3012
Current probe	HILOK TR1025 10kA
Voltage probe	Tektronix P 6015A
Peak acquisition	Current and voltage peak acquisition and touch screen display output (internal)
Test box	PA 350
Control software	MCS 3000 for remote control, support windows XP, windows 7
Measurement software	MAS 3000, optical fiber communication
CDN	Three-phase CDN: SGN 38200T20

Communication wave parameters	
Output voltage	300V~6Kv/10kV (±10%)
Output polarity	+/-/positive first/negative first
Output voltage wave	10/700±20%μs
Output current wave	5/320±20%μs
Output impedance	15Ω、40Ω (25+15Ω)
Output short circuit current	15~250A ±10%
Network (internal)	Optional 2-path 4-line or 4-path 8-line CDN
General data	
Power supply	AC 110V/220V, ±10%, 50/60Hz (default AC 220V)
Temperature	15~35℃
Humidity	45%-75%
Ground resistance	No more than 0.5Ω
Dimension	19"/22U (600×800×1250)
Weight	Approx. 300kg
No conductive dust, fire and explosion danger, no corroding metal and insulated gas. Voltage waveform is sine wave. THD is <5%.	



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