

Multiple waveform lightening surge simulator

SG3483



As per
> IEC 61000-4-5
> GB/T 17626.5
> GB/T 3482
> GB/T 3483
> GB/T 16896.1

Description


SG 3483 is based on the third generation of intelligent multi-function comprehensive simulator. The use of programmable controller and computer technology simplifies system configuration and enhances the reliability of the test system which ensures safety of test to avoid the damage from the high voltage discharge in transient process. Ease to use the colorful touch screen with human-computer interaction. Set the test requirements on the parameter page and all the test procedure can be done automatically with the advantages of integrated system, intelligent control, easy-operation and time-saving. Main circuit can be changed to generate different waveforms.

Features

- > color touch screen 7 inch LCD
- > PLC controlled automatic control system
- > Changeable main circuit to generate multiple waveforms
- > One-click test with programmable function
- > RS 232 interface for remote control
- > Built-in ground installation and safety interlock

Industries

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

Technical parameters	
Model	SG3483
Output waveform I	4±30%/300µs±20% voltage wave
Output waveform II	10±30%/200µs±20% voltage wave
Output combined waveform III	10±30%/700µs±20% voltage wave 5±30%/320µs±20% current wave
Output peak voltage	20kV±10%
Voltage polarity	+/- (automatic switch)
Charging time	20s~999s (fastest: 10s)
Charging voltage instability	Less than 1%
Trigger mode	Automatic or manual, single trigger available
Trigger malfunction rate	Less than 1%
Trigger range	100% rated charging voltage
Measurement display resolution	Better than 3%
Insulation strength	≤500V RMS (common port COMMCN to ground reference PE)
Auxiliary mains voltage	220V(±10%)/50Hz
Auxiliary mains current	<10A (continuous)
Accessories	
Test box (including test cable)	 <p>Test cable 6mm²*0.45m red 1 Test cable 6mm²*0.45m green 1</p>
Power cord	Three-core 1 (2 meters)
Current coil (internal)	TE5046 1

Calibrated parameters	
Output waveform I	
Rise time	4 µs±30%
Time to half value	300µs±20%
Output peak voltage	2kV ±10% 6kV ±10% 2kV ±10% 10kV ±10% 15kV ±10% 20kV ±10%
Output waveform II	
Rise time	4 µs±30%
Time to half value	300µs±20%
Output peak voltage	2kV ±10% 6kV ±10% 10kV ±10% 15kV ±10% 20kV ±10%
Output combined waveform III	10±30%/700µs±20% voltage wave 5±30%/320µs±20% current wave
Output peak voltage	2kV ±10% @ 50A ±10% 6kV ±10% @ 150A ±10% 10kV ±10% @ 250A ±10% 15kV ±10% @ 375A ±10% 20kV ±10% @ 500A ±10%



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