

Surge (impulse) current simulator

CSG2050



As per

- > GB/T 16896.1
- > GB/T 16927-1997
- > ANSI C12.1-2001

Description

CSG2050 surge (impulse) current simulator is based on 3ctest third-generation intelligent multiple function comprehensive test simulator. Programmable controller and computer technology is applied for control to simple system construction and enhance system reliability. It highly enhance test efficiency for high voltage and current test. Unique color touch screen and friendly human-machine interface with easy operation. Setting simple test requirements on parameters setting page, all test can be done automatically. It is featured with high system integration and intelligence, easy operation and safety system to save time and space.

Features

- > color touch screen 7 inch LCD
- > PLC control system, automatic control system
- > current and voltage LCD display
- > one-button test with programmable function
- > RS232 communication port for remote control
- > internal ground device and safety lock

Industries

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

Technical parameters	
Model	CSG2050
Output waveform	20/50 μ s (\pm 10%) current wave
Output peak current	20kA \pm 10% Reversed polarity peak <20%
DUT residual voltage	< 3kV
Voltage polarity	+/- (automatic switch)
Charging time	10s~999s
Charging voltage instability	Less than 1%
Trigger mode	Automatic or manual, single trigger
Trigger malfunction	Less than 1%
Trigger range	100% rated charging voltage
Measurement display resolution	Better than 3%
Insulation strength	\leq 500V RMS (common port COMMCN to reference ground PE)
Auxiliary mains voltage	220V(\pm 10%)/50Hz
Auxiliary mains current	<10A (continuous)
Calibration parameters	
Rise time	20 μ s \pm 10%
Time to half value	50 μ s \pm 10%
First measurement range	1kA-0%/ + 30% @2kV 2kA-0%/ + 30% @4kV
Short circuit output peak current	3kA-0%/ + 30% @6kV 4kA-0%/ + 30% @8kV 5kA-0%/ + 30% @10kV
Second measurement range	4kA-0%/ + 30% @2kV 8kA-0%/ + 30% @4kV
Short circuit output peak current	12kA-0%/ + 30% @6kV 16kA-0%/ + 30% @8kV 20kA-0%/ + 30% @10kV

General data	
Power supply	AC220V \pm 10%, 50/60Hz
Temperature	-10 \pm 40 $^{\circ}$ C
Humidity	35%-85%RH (no condensation)
Ground resistance	No more than 0.5 Ω
Dimension	1730x600x700mm (35U)
Weight	Approx. 200kg
No conductive dust, no fire or explosion danger, no corrosive metal and insulation air. Waveform of mains voltage is sine wave. The THD is <5%.	



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