

Surge (Impulse) Current Simulator

CSG2050

Datasheet



In Compliance with

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

Introduction

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

Application Areas

- > 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	20 kA $\pm 10\%$ Reversed polarity peak <20%
DUT residual voltage	< 3 kV
Voltage polarity	+/- (automatic switch)
Charging time	10 s~999 s
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	≤ 500 V RMS (common port COMMON to reference ground PE)
Auxiliary mains voltage	220 V($\pm 10\%$)/50 Hz
Auxiliary mains current	<10 A (continuous)
Calibration Parameters	
Rise time	20 μ s $\pm 10\%$
Time to half value	50 μ s $\pm 10\%$
First measurement range	1 kA-0%/ + 30% @2 kV 2 kA-0%/ + 30% @4 kV
Short circuit output peak current	3 kA-0%/ + 30% @6 kV 4 kA-0%/ + 30% @8 kV 5 kA-0%/ + 30% @10 kV
Second measurement range	4 kA-0%/ + 30% @2 kV 8 kA-0%/ + 30% @4 kV 12 kA-0%/ + 30% @6 kV
Short circuit output peak current	16 kA-0%/ + 30% @8 kV 20 kA-0%/ + 30% @10 kV

General Parameters	
Power supply	AC 220 V $\pm 10\%$, 50/60 Hz
Temperature	-10 \pm 40 $^{\circ}$ C
Humidity	35%-85% RH (no condensation)
Ground resistance	No more than 0.5 Ω
Dimension	1730x600x700 mm (35U)
Weight	Approx. 200 kg
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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3ctest is always striving for product innovation and quality improvement.

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