

Impulse Current Simulator

S6C12/S6C50

Datasheet



In Compliance with

> UL1449

Introduction

S6Cxx is an intelligent impulse current test instrument, which can meet international standard and product standards. S6 series is the best option for compact impulse current test as per immunity test requirements specified by CE certificate and CCC certificate for single phase DUT. With touch screen operation, test can be controlled automatically. Multiple accessories can be offered for components, mains module and surge protection module test.

Features

- > 5.7 inch color touch screen front panel operation
- > Programmable test function
- > Ethernet, RJ45 port for remote control, print and documentation
- > internal current detection
- > imported electronic switch for main switch

Application Areas

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

General Parameters	
Display screen	5.7 inch TFT touch screen
Power supply	AC 110 V / 220 V $\pm$ 10%, 50/60 Hz $\pm$ 5% (default AC 220 V 50 Hz)
Fuse	6 A
Max. Power consumption	200 W
Memory space	Infinite (PC)
Communication mode	Ethernet, RJ45
External control	D-sub 25 p
External trigger input	BNC, 5 V TTL
CRO trigger output	BNC, 5 V TTL
Input	BNC, 5 V TTL
Warning LED	0-220 V AC 10 A/0-48 V DC 3 A Depending on external signal lamp
Failure test	Display on LCD and interrupt the work at failure case
Working indicator	LED, LCD front panel display
Grounding connection	Flat ground line
Size	19 inch/4U
Weight	Approx. 15 kg
Temperature	15 °C ~ 35 °C
Air pressure	86 kPa~106 kPa

Impulse current test as per IEC 61643-1 and GB/T 18802.1 SURGGE module		
Model	S6C 12	S6C 50
Test current	1~120 A $\pm$ 10%	30~500 A $\pm$ 10%
Current waveform	Front time: 8 μ s $\pm$ 20 % Time to half value: 20 μ s $\pm$ 20 %	
Charging voltage	Setting current value*equivalent impedance + compensation voltage $\leq$ 6000 V	
Source output impedance	500 ohm (1-10 A) 50 ohm (11-120 A))	12 ohm
Output polarity	+/-/alternative	
Pulse cycle	5 s ~ 99 s	
Surge current detection	Front panel BNC output Surge current: 10 A: 1 V	
Counter	1 - 10000	
Trigger mode	Automatic, manual and external	

Basic Equipment
Simulator, user manual, test report, test cable, power cord and fuse

Optional Accessories and Function
- HV differential probe, model:VCF-80, test voltage: 8 kV, attenuation ratio: 1000:1 - HV current sensor, CM 0220M - PC control software CoreLab With PC installed WIN XP and WIN7, it can be easily operated to make the measurement, based on the customized test program. It can identify any device with automatic configuration. It can easily generate test reports.



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