

# Impulse current simulator

# S6C01/S6C05



### As per

> UL1449

### Description

S6Cxx is a intelligent impulse current test instrument, which can meet international standard and product standards. Test current is up to 120A and down to 1A.

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

### Industries

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

General data	
Display screen	5.7 inch TFT touch screen
Power supply	AC 110V/220V±10%, 50/60Hz±5% (default AC 220V 50Hz)
Fuse	6A
Max. Power consumption	100W
Memory space	Infinite (PC)
Communication mode	Ethernet, RJ45
External control	D-sub 25p
External trigger input	BNC,5V TTL
CRO trigger output	BNC,5V TTL
Input	BNC,5V TTL
Warning LED	0-220VAC 10A/0-48VDC 3A 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. 15Kg
Temperature	15-35°C
Air pressure	86kPa~106kPa

Impulse current test as per IEC 61643-1 and GB/T 18802.1 SURGGE module		
Model	S6C01	S6C05
Test current	1~120A ± 10%	30~500A ± 10%
Current waveform	Front time: 8 μs ± 20 % Time to half value: 20 μs ± 20 %	
Charging voltage	Setting current value *equivalent impedance ≅ 5000V	
Source output impedance	500 ohm (1-10A) 50 ohm (11-120A))	12 ohm
Output polarity	+/-/alternative	
Pulse cycle	5s-99s	
Surge current detection	Front panel BNC output Surge current: 100A: 1V	
Number of test	1 - 10000	
Trigger mode	Automatic, manual and external	

**Basic equipments**

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

**Optional accessories and function**

1. HV differential probe, model:VCF-80, test voltage: 8kV, attenuation ratio: 1000:1
2. HV current sensor, signal TR5025
3. PC control software EMSLab  
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.
4. Current pulse simulator can be customized :  
S6C01/S6C02/S6C05/S6C06/S6C10; source output impedance can be customized.



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