



Impulse Current Simulator

S6C150

- IEC 61643-11
- GB/T 18802.11

Features

- > 5.7-inch color touch screen front panel operation
- > Test current from 0.5 A to 1,500 A
- > Support text sequence function and easy operation
- > Built-in fault alarm function

Introduction

The S6C150 is a new type of impulse current simulator developed in compliance with IEC 61643-11 and GB/T 18802.11. Built-in 70 Ω , 15 Ω , and 1.5 Ω main circuits. It can output an 8/20 μ s impulse current waveform. The impulse current ranges from 0.5 A to 1,500 A.

Application Areas



Technical Parameters

Test Current Range	500 A ~ 1,500 A, $\pm 10\% \pm 0.5$ A
Current Waveform	Front time: $8 \mu\text{s} \pm 10\%$ Time to half value: $20 \mu\text{s} \pm 10\%$ Front time definition: 1.25^* (10% ~ 90%) Time to half value definition: 1.18^* (50% ~ 50%)
Effective Output Impedance	$\leq 70 \Omega$ ($0.5 \text{ A} \leq I \leq 10 \text{ A}$) $\leq 15 \Omega$ ($10 \text{ A} < I \leq 200 \text{ A}$) $\leq 1.5 \Omega$ ($200 \text{ A} < I \leq 1,500 \text{ A}$)
Standard Load Capability	2 μH (Other load capabilities can be customized)
Output Polarity	Positive, negative, alternative
Charging Voltage	Max. 3 kV
Pulse Period	5 s ~ 180 s (The minimum time depends on the test voltage)
Test Count	1 ~ 10,000
Trigger Mode	Manual, Auto, External Trigger
Note: The test current range of 0.5 A to 3,000 A can be customized.	

General Parameters

Display Screen	5.7" TFT touch screen
Working Power	AC 100 V ~ 220 V, $\pm 10\%$, 50 Hz $\pm 5\%$
Fuse	6 A
Max. Power Consumption	300 W
External Trigger Input	BNC, 5 V TTL
CRO Trigger Output	BNC, 5 V TTL
Operation Control Input	BNC, 5 V TTL
Communication Mode	Ethernet LAN, RJ45
Working Status Indication	LED indication and LCD display in front panel
Grounding Method	Flat grounding wire
Dimension	4U rack, 450 * 190 * 620 mm
Weight	Approx. 19 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%, RH (no condensation)

Standard Accessories

Power Cord, User Manual, Test Cables, Grounding Wire, Fuse

Optional Accessories

1	PC Control Software	Model: Corelab > Support Windows 7/8/10/11; > Support Ethernet Interface; > Support sequence test, easy to operate, generate and export test report.	
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SUZHOU 3CTEST ELECTRONIC CO., LTD.

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

E-mail: globalsales@3ctest.cn

Service: service@3ctest.cn

Tel: +86 - 512 - 68077192

Web: www.3ctest.com



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