



# Impulse Current Simulator

## S6C600N

- IEC 61643-11
- GB/T 18802.11

### Features

- > 5.7-inch color touch screen front panel operation
- > The test current can reach 6 kA
- > Test scheduling function, easy to operate
- > Built in fault alarm function in the system

### Introduction

S6C600N is a new type of impulse current simulator developed according to the requirements of IEC 61643-11 and GB/T 18802.11 standards. It can output 8/20  $\mu$ s pulse current waveform with a maximum output current of 6 kA.

### Application Areas



## Technical Parameter

|                             |                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------|
| Test Current Range          | 20 A ~ 6000 A ( $\pm 10\%$ $\pm 1$ A)                                                      |
| Current Wavefront Time      | 8 $\mu$ s $\pm 10\%$ , wavefront time definition: 1.25 * (10%~90%)                         |
| Half Peak Time of Current   | 20 $\mu$ s $\pm 10\%$ , definition of half peak time: 1.18 * (50%~50%)                     |
| Equivalent Output Impedance | $\leq 14.5 \Omega$ (20 A $\leq I < 200$ A)<br>$\leq 1 \Omega$ (200 A $\leq I \leq 6000$ A) |
| Output Polarity             | Positive, negative, first positive and then negative                                       |
| Test Interval               | 5 s~180 s (the shortest time depends on the test voltage)                                  |
| Test Frequency              | 1 ~ 10000                                                                                  |
| Pulse Triggering Method     | Manual, automatic, externally triggered                                                    |

## General Parameters

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Display                                | 5.7-inch TFT touch screen              |
| Scope of Working Power Supply          | AC 220 V, $\pm 10\%$ , 50 Hz $\pm 5\%$ |
| Fuse                                   | 6 A                                    |
| Maximum Power Consumption              | 300 W                                  |
| Communication Method                   | Ethernet LAN                           |
| External Trigger Input                 | BNC, 5V TTL                            |
| CRO Triggers Output                    | BNC, 5V TTL                            |
| Operation Control Input                | BNC, 5V TTL                            |
| Instrument Grounding Connection Method | Use a flat grounding wire              |
| Chassis Size                           | 6U L * W * H: 620 * 450 * 280 mm       |
| Instrument Weight                      | About 29 kg                            |
| Environmental Scope                    | 15 $^{\circ}$ C ~ 35 $^{\circ}$ C      |
| Pressure Range                         | 86 kPa ~ 106 kPa                       |
| Humidity Range                         | 45% ~ 75%                              |

## Standard Accessories

Test Line, Power Line, Grounding Wire, Fuse (spare parts), Instruction Manual, Factory Report.

## Optional Accessories

|                                                    |                                                                                                                      |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| CPN 2216S current wave coupling decoupling network | The maximum coupled pulse current can reach 6 kA. EUT maximum load capacity AC 220 V 16 A single-phase DC 220 V 16 A |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|

## SUZHOU3CTEST ELECTRONIC CO., LTD

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China  
 Sales Email: [globalsales@3ctest.cn](mailto:globalsales@3ctest.cn) Service Email: [service@3ctest.cn](mailto:service@3ctest.cn)  
 Tel: + 86 - 512 - 68077192 Web: [www.3c-test.com](http://www.3c-test.com)

