



# Impulse Current Simulator

## S15C Series

- IEC 61643-11
- GB/T 18802.11

### Features

- > 5.7 inch color touch screen front panel operation;
- > The test current can reach 40 kA;
- > Easy to operate;
- > Ethernet LAN communication, stable and reliable.

### Introduction

The S15C series is a new type of impulse current simulator developed based on standards. It can output 8/20  $\mu$ s pulse current waveform, with a maximum output current of 40 kA.

### Application Areas



## Technical Parameters

Test Current Range	S15C2000	0.5 kA - 20 kA ( $\pm 10\%$ )
	S15C3000	0.5 kA - 30 kA ( $\pm 10\%$ )
	S15C4000	0.5 kA - 40 kA ( $\pm 10\%$ )
Charging Voltage	$\leq 15$ kV	
Current Waveform	Wavefront time: $8 \mu\text{s} \pm 10\%$ Half peak time: $20 \mu\text{s} \pm 10\%$ The wavefront time is defined as $1.25 * (10\% - 90\%)$ The half peak time is defined as $1.18 * (50\% - 50\%)$	
Polarity	Positive, negative, first positive and then negative	
Source Output Impedance	S15C2000	$\leq 0.75 \Omega (20 \text{ kA})$
	S15C3000	$\leq 0.5 \Omega (30 \text{ kA})$
	S15C4000	$\leq 0.4 \Omega (40 \text{ kA})$
Repetition Rate (single pulse time)	11 s - 99 s (the shortest time depends on the test current value)	
Number of Rials	1 - 999	
Trigger Method	Manual, automatic, external triggering	

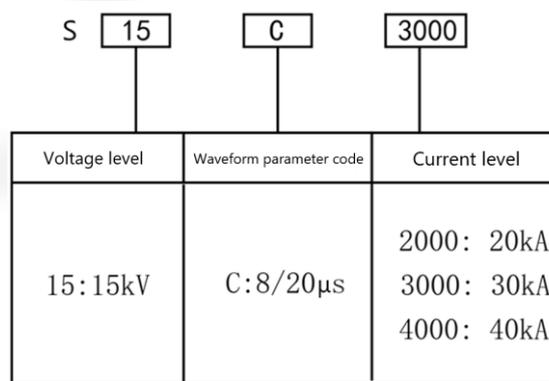
## General Parameters

Display	5.7 inch TFT touch screen	
Working Power Supply Range	AC 220V, $\pm 10\%$ , 50/60 Hz $\pm 5\%$ (Domestic default AC 220 V 50 Hz)	
Fuse	10 A	
Maximum Power Consumption	1500 W	
Communication Methods	Ethernet LAN	
External Control Methods	25 pin parallel thread	
External Trigger Input	BNC, 5 V TTL	
Operation Control Input	BNC, 5 V TTL	
Instrument Grounding Connection Method	Using a flat grounding wire	
Chassis Size(All S15C series are consistent)	22U cabinet (600mm * 800mm * 1250mm)	
Instrument Weight	S15C2000	Approximately 142 kg
	S15C3000	Approximately 152 kg
	S15C4000	Approximately 162 kg
Environmental Scope	$15^{\circ}\text{C} - 35^{\circ}\text{C}$	
Pressure Range	86 kPa - 106 kPa	
Humidity Range	45% - 75%	

## Standard Accessories

Test Wires, Fuses, Power Lines, Grounding Wires, Factory Reports, and Manuals.

**Naming rules :**



\*Customizable according to customer needs

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