

Impulse Current Simulator

S5C800



- IEC 61643-11
- GB/T 18802.11

Features

- > 5.7-inch color touch screen front panel operation;
- > The test current can reach 8 kA;
- > Test scheduling function, easy to operate;
- > Built in fault alarm function in the system.

Introduction

S5C800 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 μ s pulse current waveform with a maximum output current of 8 kA.

Application Areas



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 30 kg
Environmental Scope	15 °C ~ 35°C
Pressure Range	86 kPa ~ 106 kPa
Humidity Range	45% ~ 75%

Technical Parameters

Test Current Range	20 A ~ 8000 A ($\pm 10\% \pm 1$ A)
Current Wavefront Time	8 μ s $\pm 10\%$, wavefront time definition: 1.25 * (10%~90%)
Half Peak Time of Current	20 μ s $\pm 10\%$, definition of half peak time: 1.18 * (50%~50%)
Equivalent Output Impedance	14.5 Ω (20 A $\leq I < 200$ A) 0.5 Ω (200 A $\leq I \leq 8000$ A)
Output Polarity	Positive, negative, first positive and then negative
Charging Voltage	Up to 5 kV
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

Standard Accessories

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

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