



Impulse Current Simulator

S6C600N

- IEC 61643-11
- GB/T 18802.11

Features

- > 5.7-inch color touch screen front panel operation
- > Max. test current 6,000 A
- > Support text sequence function and easy operation
- > Built-in fault alarm function

Introduction

The S6C600N is a new type of impulse current simulator developed in compliance with IEC 61643-11 and GB/T 18802.11. It can output an 8/20 μ s impulse current waveform with a Max. output current of 6,000 A.

Application Areas



Technical Parameters

Test Current Range	20 A ~ 6,000 A, $\pm 10\% \pm 1$ A
Current Waveform	Front time: $8 \mu\text{s} \pm 10\%$ Time to half value: $20 \mu\text{s} \pm 10\%$ Front time definition: $1.25^* (10\% \sim 90\%)$ Time to half value definition: $1.18^* (50\% \sim 50\%)$
Effective Output Impedance	$\leq 14.5 \Omega$ ($20 \text{ A} \leq I < 200 \text{ A}$) $\leq 1 \Omega$ ($200 \text{ A} \leq I \leq 6,000 \text{ A}$)
Output Polarity	Positive, negative, alternative
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

General Parameters

Display Screen	5.7" TFT touch screen
Working Power	AC 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
Grounding Method	Flat grounding wire
Dimension	6U rack, 620 * 450 * 280 mm
Weight	Approx. 29 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	$15^\circ\text{C} \sim 35^\circ\text{C}$
Relative Humidity	45% ~ 75%

Standard Accessories

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

Optional Accessories

1	Current Wave Coupling/Decoupling Network	Model: CPN 2216S The coupled impulse current can reach up to 6 kA. Maximum EUT load capacity: Single-phase AC 220 V / 16 A, DC 220 V / 16 A
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