

## Impulse Current Generator

## S16C4000

### Datasheet



#### In Compliance with

- > IEC 61643-11
- > GB/T 18802.11

#### Introduction

The impulse current simulator S16C4000 is designed as per IEC 61643-11 and GB/T 18802.11, which is capable of generating 8/20  $\mu$ s short-circuit current waveform with maximum current 40 kA. Equipped with coupling/decoupling network and ten-way distribution networks SPN 10, up to ten EUTs can be tested under active or passive mode. Together with MAS 3000, the waveform data can be measured and analyzed professionally. With features of easy-to-operate and of highly reliability, S16C4000 is your best choice for impulse current simulator.

#### Features

- > 5.7" Color touch screen;
- > Max. test current 40 kA;
- > Equipped with MAS 3000, waveform measurement and analysis can be realized;
- > Ten-way distribution networks are available for customization;

#### Application Areas

- > Component

Technical Parameters	
Test Current	0.5 kA ~ 40 kA
Current Waveform	Rise time: 8 $\mu$ s, $\pm$ 10% Duration: 20 $\mu$ s, $\pm$ 10%
Polarity	Positive/negative/alternative
Source Impedance	0.4 $\Omega$
Repetition (time for single pulse)	11 s ~ 99 s (The minimum time is subjected to test voltage)
Counter	1~999
Sync.	0° ~ 360° (45 Hz ~ 65 Hz)
Trigger Mode	Manual, Auto, External Trigger

Accessories
User Manual, Test line, Ground line, 3-core power line, fuses (spare parts), Coaxial cable

Options	
Ten-way distribution networks	SPN 10
Coupling/decoupling networks	CPN 4516S (customized for other load capacity)
Isolation transformer	DG-4.4 KVA
Wide-band Current Monitor	CM 0220M
Measurement	MAS 3000
Control Software	Corelab

General Parameters	
Display Screen	5.7" TFT touch screen
Working Power	AC 110 V/220 V ( $\pm$ 10%) , 50 Hz /60 Hz (Default in mainland China: 220 V)
Fuse	10 A
Max. Power	300 W
Communication Mode	Ethernet LAN、RJ45
External Control Mode	25-pin parallel port cable
External Trigger Input	BNC, 5 V TTL, The node is open, oscilloscope can trigger the product when internal circuit is closed.
Running Control Input	BNC, 5 V TTL
Failure Detection	The failure information will be displayed on LCD in front panel when failure occurs and interrupt the working of instrument.
Working Status Indication	LED indication and LCD display on front panel
Earthing Mode	Flat earth line
EUT Power Injection Line	$\phi$ 4 mm or $\phi$ 6 mm banana plug
Dimension	35U
Weight	Approx. 210 kg
Ambient Temperature	15 °C ~ 35 °C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa



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