

Impulse Current Simulator

S16C4000N



- YD-T 944-2007
- IEC 61643-11:2011
- GB/T 18802.11-2020

Features

- > 5.7-inch color touch screen front panel operation
- > The maximum test current can reach 40 kA
- > Built-in three-phase coupling decoupling network
- > The test scheduling function is simple to operate
- > The LAN communication interface enables remote control

Introduction

The S16C4000N is a new type of inrush current simulator developed in accordance with the requirements of the standards YD-T 944-2007, GB/T 18802.11-2020 and IEC 61643-11:2011. It can output a current wave of 8/20 μ s, and the pulse current can reach 40 kA. Just set the test requirements on the parameter setting page, and various test processes can be automatically executed.

It has the advantages of high system integration, intelligent control, simple operation, and time-saving for testing.

Application Areas



Technical Parameters

Test Current range	2 kA ~ 40 kA , $\pm 10\%$
Charging Voltage	≤ 16 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% to 50%)
Polarity	Positive, negative, alternative
Source Impedance	$\leq 0.4 \Omega$
Repetition Rate (single pulse time)	14 s ~ 200 s (The shortest time depends on the test current value)
Test Number	1 ~ 999
Trigger Mode	Manual, automatic, external trigger

Built-in Coupling/Decoupling Network

EUT Carrying Capacity	Three-phase five-wire AC 400 V (line voltage) /100 A (fully compatible with current) DC 600 V/100 A (Full current compatibility)
EUT Power Switching Mode	Automatic switching
EUT Coupling Path	Any combination path of L1, L2, L3, N, and PE
Coupled Mode	GDT gap coupling
Decoupling Method	LC decoupling, decoupling inductance < 0.5 mH

General Parameters

Display Screen	5.7-inch TFT touchscreen
Power Supply	AC 220 V, $\pm 10\%$, 50/60 Hz
Fuse	10 A
Max. Power Consumption	1500 W
Communication Mode	Ethernet LAN
External Control Mode	25-needle parallel thread
External Trigger Input	BNC, 5 V TTL
Operation Control Input	BNC, 5 V TTL
Grounding Mode	Use a flat grounding wire
Dimension	19 inches /35U rack 680mm(L)*800mm(W)*1750mm(H)
Weight	Approx. 393 kg
Ambient Temperature	$15^{\circ}\text{C} \sim 35^{\circ}\text{C}$
Relative Humidity	45% ~ 75% (no condensation)
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard
Accessories

Power Cord, Fuse, Test Wire, Grounding Wire, Instruction Manual

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