

Surge Impulse Group Generator

LSE-545CB [Introduction]



LSE-545CB, is a highly integrated and efficient dual-in-one testing system that combines surge and burst immunity tests. This entire equipment meets the requirements of IEC 61000-4-4 and -5 standards. It not only provides excellent interference performance but also integrates advanced operation and control technologies, bringing a different experience to electromagnetic compatibility testing. also meets the ripple testing requirements of ISO 16750-2, the testing requirements of GB/T 17626.16/19, and the testing requirements of ISO 21498-2. The system is capable of fully automated calibration and testing. An external power amplifier is optional, and the device can also be used standalone.

Compliance Standards

IEC 61000-4-4 Ed.3 \ IEC 61000-4-4 Ed.2 \ EN 61000-4-4 \ GB/T 17626.4 \ IEC 61000-4-5 Ed.3 \ E N 61000-4-5 \ GB/T 17626.5

Application Fields

Industrial Equipment, Electrical Instrumentation, Automotive Electronics, Medical Devices, Lightin g Equipment, Communications Equipment, Audio and Video Equipment, Low-Voltage Electrical Apparatus, Electronic Components, Electric Tools, Information Technology Equipment, Instrumentation and Apparatus.

Technical Features

- ◆ A 7" color capacitive touchscreen offers a user-friendly and powerful human-machine interface;
- ◆ The interface allows for direct and rapid test program creation, enabling intelligent test operation;
- ♦ It features a built-in self-calibration function with calibration factors, facilitating easy user calibration. ;
- ◆ The communication interface design is comprehensive, with expandable RS485 serial ports in addition to the standard configuration;

- ◆ Both surge and burst tests utilize high-voltage, high-speed semiconductor switches, capable of genera ting excellent interference waveforms and characteristics;
- ◆ The maximum peak test voltages for both surge and burst tests exceed 5 kV, providing sufficient test margins for users;
- ◆ Its highly integrated design saves test space, allowing users to accomplish all their test needs with a single machine;
- ◆ Single surge or burst test items can be upgraded as per user requirements

Parameter List

Specification Model	LSE-545CB			
Type of Interference	Electrical Fast Transient/Burst Immunity,Surge Immunity			
EFT/B Generator				
Output Voltage	0.2 ~ 5 kV (+10%)			
Pulse Frequency	Continuously adjustable from 0.1 kHz to 1000 kHz			
Pulse Polarity	Positive/Negative/Automatic Alternation between Positive and Negative			
Internal Resistance	50 Ω			
Pulse Rise Time	5 ns±30%			
Pulse Width at 50Ω	50 ns±30%			
Pulse Width at 1kΩ	$35\mathrm{ns}\sim150\mathrm{ns}$			
Number of Pulses per Burst	1 to 500 pulses			
Burst Period	Continuously adjustable from 0.1 s to 60 s			
Surge Generato				
Output Voltage	0.2 ~ 5 kV (+10%)			
Output Current	0.1 ∼ 2.5 kA(+10%)			
Surge Polarity	Positive / Negative / Automatic Alternation between Positive an d Negative			
Output Waveform	Open-circuit Voltage Waveform Front Edge: 1.2 µs ± 30% Pulse Width: 50 µs ± 20% Short-circuit Current Waveform Front Edge: 8 µs ± 20% Pulse Width: 20 µs ± 20%			
Impedance	2 Ω/12 Ω/42 Ω			



Pulse Repetition Period	10 s \sim 600 s (1 s step)		
General Parameters			
Angle of Injection	Asynchronous / Synchronous, 0 to 359 degrees, step value of 1 degree		
Test Function	Programmable injection of interference at any phase, built-in IE C test levels, voltage step test		
Coupling/Decoupling Network	Built-in, single-phase three-wire, AC 264 V/16 A, DC 370 V/16 A		
Display Interface	Android-based color touchscreen		
Operating Power Supply	AC 85 V \sim 264 V 50/60 Hz 120 W		
Dimensions	19"/4 U		
Weight	20 kg		

Type Selection

Name	Specification	IEC61000-4-4	IEC61000-4-5
Combined Surge and Burst Generator	LSE-545CB	$\sqrt{}$	$\sqrt{}$
Generator	LSE-545CB-B	$\sqrt{}$	
Burst Generator	LSE-545CB-S		$\sqrt{}$

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