



HV High-Power Coupling/decoupling Networks for EFT/Burst and Surge Immunity Test

SEP2550S

- IEC/EN 61000-4-4
- IEC/EN 61000-4-5
- IEC/EN 61000-6-1
- IEC/EN 61000-6-2
- GB/T 17626.4
- GB/T 17626.5

Features

- > EUT AC load capacity: AC 250 V 50 A;
- > EUT DC load capacity: DC 100 V 50 A;
- > EUT Power Automatic Switching;
- > Over-current protection;
- > Support test sequence function;
- > Phase-angle superposition on arbitrary lines;

Introduction

The SEP2550S Coupling/Decoupling Network for EFT/Burst and Surge Immunity Tests is an automatic CDN, which is designed according to IEC 61000-4-4 and IEC 61000-4-5. It is compatible with 3CTEST's generator (CCS, CWS and EFT series) and generators from others make. The max. EUT load capacity is three-phase five-wire AC 250 V 50 A, DC 100V 50A. Other EUT voltage and current ratings can be customized upon customer requirements.

Application Areas



IEC/EN 61000

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Technical Parameters for EFT / Burst as per IEC / EN 61000 - 4 - 4

Max. Test Voltage	4.2 kV
Coupling Capacitor	Manual switching, 33 nF
Coupling Path	Arbitrary combination paths among L, N, PE
Phase Synchronization	Arbitrary phase angle combination among L, N, PE
Text Mode	Support test sequence function
Coupling Attenuation	< 2 dB
Residual Pulse Voltage at EUT Injection Terminal	Less than 10% of the applied test pulse voltage

IEC/EN 61000

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Technical Parameters for Surge as per IEC / EN 61000 - 4 - 5

Max. Test Voltage	6.0 kV (1.2/50 μ s)
Max. Test Current	3.0 kA (8/20 μ s)
Coupling Path	Arbitrary combination paths among L, N, PE
Phase Synchronization	Arbitrary phase angle combination among L, N, PE
Text Mode	Support test sequence function
Coupling Resistor	0 Ω , 10 Ω
Coupling Capacitor	9 μ F, 18 μ F
Coupling Attenuation	< 2 dB
Residual Pulse Voltage at EUT Injection Terminal	Less than 10% of the applied test pulse voltage or twice the peak rated voltage of the CDN.

General Parameters

Working Status Indication	LED indication and LCD display in front panel
Grounding Mode	Flat grounding wire
Dimension	19"/22U rack
Weight	Approx. 100 kg
Ambient Temperature	15 $^{\circ}$ C ~ 35 $^{\circ}$ C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

User manual, Test line, Power line, Grounding line, Fuse, Coaxial cable

Optional Accessories

Name	Model	Compliant with standards and Features
EFT/Burst Generator	EFT 500x	IEC 61000-4-4; Max. pulse output: 4.8 kV
	EFT 600x	IEC 61000-4-4; Max. pulse output: 6.0 kV
	EFT 700x	IEC 61000-4-4; Max. pulse output: 7.0 kV
Lightning Surge Generator	CWS 600x	IEC 61000-4-5; Max. pulse output: 6.0 kV (1.2/50 μ s), 3.0 kA (8/20 μ s)
	CWS 800x	IEC 61000-4-5; Max. pulse output: 8.0 kV (1.2/50 μ s), 4.0 kA (8/20 μ s)
	CWS 1000x	IEC 61000-4-5; Max. pulse output: 10.0 kV (1.2/50 μ s), 5.0 kA (8/20 μ s)
Compact Combination Simulator	CCS 600x	IEC 61000-4-4; Max. pulse output: 4.8 kV IEC 61000-4-5; Max. pulse output: 6.0 kV (1.2/50 μ s), 3.0 kA (8/20 μ s)
	CCS 1000	IEC 61000-4-4; Max. pulse output: 4.8 kV IEC 61000-4-5; Max. pulse output: 10.0 kV (1.2/50 μ s), 5.0 kA (8/20 μ s)
HV Differential Probe	VCF 80	Maxi. test voltage: 8 kV; Attenuation ratio: 1000:1
High-Voltage Current Sensor	TR 5025	Maxi. test voltage: 20 kV; Attenuation ratio: 100:1
EFT/Burst Calibration Kit	TFB 50	Input impedance: 50 Ω ; Output impedance: 50 Ω ; Attenuation: 55 dB
	TFB 1000	Input impedance: 50 Ω ; Output impedance: 50 Ω ; Attenuation: 55 dB
	Network Port Adapter and Carrying Case	

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