

HV High Power EFT/Burst Coupling/Decoupling Network

EFTN 150125T



- IEC/EN 61000-4-4
- IEC 61000-4-1
- IEC 61000-4-2
- GB/T 17626.4

Features

- > Max. coupling voltage 7.2 kV (5/50 ns)
- > Supports DC EUT loads up to 3,000 V, 125 A (Support customization)
- > Supports AC EUT loads up to 1,500 V, 125 A, three-phase five-wire (Support customization)
- > Test schedule of parameters, including test voltage, polarity, and phase synchronization angle, enabling fully automated network switching;
- > Supports arbitrary phase angle superimposition between any line combinations
- > Coupling path indication (LED indicators)
- > Selectable coupling resistance according to IEC standards or user-defined configurations
- > Plug-in insulated connectors for enhanced safety and convenience;
- > Emergency stop button automatically disconnects EUT power supply and high-voltage coupling paths.

Introduction

The EFTN 150125T HV High Power EFT/Burst Coupling/Decoupling Network is designed in compliance with IEC 61000-4-4. It enables fully automated three-phase coupling/decoupling and supports both AC and DC power supply testing.

Compatible with CCS and EFT series simulators, it supports EUTs with a maximum load capacity of AC 1,500 V, 125 A or DC 3,000 V, 125 A (three-phase five-wire). Custom configurations are available for other EUT voltage and current ratings.

Application Areas



Technical Parameters

Network Type	Fully automated single-phase/three-phase coupling/decoupling network
Pulse Voltage	Max. DC 3,000 V, 125 A
Pulse Current	Max. AC 1,500 V, 125 A, 50/60 Hz, three-phase five-wire
Phase Synchronization	Any line-to-line and line-to-ground phase angles superimposition (L1, L2, L3, N, PE)
Coupling Path	L1, L2, L3, N, and PE; arbitrary line combinations with automatic switching
EUT Power Switching Mode	Fully automatic network switching
IEC 61000-4-4 EFT/Burst Technical Parameters	
Network Port Test Voltage	0.25 kV ~ 7.2 kV ($\pm 10\%$)
50 Ω Calibration Waveform	5 ± 1.5 ns, 50 ns ± 15 ns
1,000 Ω Calibration Waveform	5 ± 1.5 ns, 50 ns ($-15 / +100$ ns)
Burst Frequency	0.1 kHz ~ 1,000 kHz
Burst Duration	0.075 ms ~ 750 ms
Polarity	Positive, Negative, alternative
Coupling Capacitor	33 nF

General Parameters

EUT Power Input/Output Port	Plug-in Insulated plug
Working power	AC 220 V $\pm 10\%$, 50/60 Hz
Fuse	6 A
Max. Power Consumption	500 W
Auxiliary Interface	D-sub 25pin
Working Status Indication	LED indication on front panel
Grounding method	Flat grounding wire
Dimension	22U rack, 600 (W)*1,250 (H)*800 (D) mm
Weight	Approx. 100 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Fuse, Test Cable, Grounding Wire, CN25 Cable, RF Cable, User Manual

Optional Main Unit

1	EFT/Burst Generator	Model: EFT 500 Series Max. pulse withstand voltage: 5 kV Built-in single/three CDN, AC 380 V 32 A DC 400 V 32 A	
2	EFT/Burst Generator	Model: EFT 600 Series Max. pulse withstand voltage: 6 kV Built-in single/three CDN, AC 380 V 32 A DC 400 V 32 A	
3	EFT/Burst Generator	Model: EFT 700 Series Max. pulse withstand voltage: 7 kV Built-in single/three CDN, AC 400 V 32 A DC 400 V 32 A	
4	EFT/Burst Generator	Model: EFT 800 Series Max. pulse withstand voltage: 8 kV Built-in single/three CDN, AC 400 V 32 A DC 400 V 32 A	

Optional Accessories

1	EFT/Burst Calibration Kit	Model: EFT-CA-KIT (SHV) Including: Attenuator TFB 500(SHV): 50 Ω load, 500:1 Attenuator: TFB 1000(SHV): 1000 Ω load, 1000:1 HV-RF connector: SHV-BNC-JJ BNC to banana plug: BNC(K)-2BP(J)	
2	Immunity Test Software	Model: CoreLab > Support Windows 7/8/10 /11 > Supports Ethernet and serial communication modes > Supports parameter sequence, test sequences, easy for operation > Supports customer information configuration and automatic test report printing.	

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