



EFT/Burst Generator

EFT 700 Series

- IEC/EN 61000-4-4
- IEC/EN 61000-6-1
- IEC/EN 61000-6-2
- IEC/EN 61850-3
- IEC/EN 61326
- GB/T 17626.4
- ANSI/IEEE C62.41

Features

- > 5.7-inch color touch screen
- > Burst voltage up to 7.0 kV
- > Built-in automatic single / 3 - phase CDN
- > Capable of controlling external 3-phase CDN with higher ratings
- > Built-in CDN up to single/3-phase AC 400 V / 32 A, DC 400 V / 32 A
- > Test sequence setting function

Introduction

The EFT 700 Series Electrical Fast Transient Burst Generators are designed according to IEC 61000-4-4 to simulate repetitive, high-speed and low-energy spikes generated by the switching of inductive loads in industrial and commercial environment.

The max. test voltage is 7 kV. The device features excellent reliability, stable performance and user-friendly operation.

Application Areas



Technical Parameters

Source Output Voltage	0.25 kV ~ 7.0 kV, $\pm 10\%$
Source Impedance	50 Ω
Coupling Capacitor	33 nF
50 Ω Calibration Waveform	5 $\pm$ 1.5 ns, 50 ns $\pm$ 15 ns
1000 Ω Calibration Waveform	5 $\pm$ 1.5 ns, 50 ns (- 15 / + 100 ns)
Pulse Frequency	0.1 kHz ~ 1,000 kHz
Burst Period	11 ms ~ 10,100 ms
Burst Duration	0.075ms ~ 750 ms
Trigger Mode	Auto, manual, external trigger
Test Time	1 s ~ 9,999 s
Polarity	Positive, negative, alternative

General Parameters

Display Screen	5.7" TFT touch screen
Working Power	AC 220 V $\pm 10\%$, 50 Hz/ 60 Hz
Fuse	6 A
Maximum Power Consumption	500 VA
External Control Mode	D-sub 25 pin
External Trigger Mode	BNC, 5 V TTL
CRO Trigger Mode	BNC, 5 V TTL
Operating Control Input	BNC, 5 V TTL
External Synchronization Input	45 Hz ~ 60 Hz, 20 V ~ 400 V
Safety Circuit	Stop work when safety circuit is open
Failure Detection	LCD display in front panel and stop work when failure occurs
Working Status Indication	LED indication and LCD display in front panel
Grounding Method	Flat grounding wire
Dimension	19"/6U rack, 450 (L) * 190 (H) * 620 (D) mm
Weight	Approx. 26 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, User Manual, Test Cables, Grounding cable, Fuse, CN25 Cable, RF cable

Optional Accessories

1	EFT/Burst Calibration Kit	Model: EFT-CA-KIT2 (SHV) Including: Attenuator TFB 1000H50(SHV): 50 Ω load, 1,000:1, DC ~ 400 Hz Attenuator: TFB 2000H1k(SHV): 1,000 Ω (Input), 50 Ω (output), 2,000:1, DC ~ 400 Hz HV-RF connector: SHV-BNC-JJ BNC to banana plug: BNC(K)-2BP(J)	
2	Capacitive Coupling Clamp	Model: CCC 100(SHV)	
3	Calibration Kit for Capacitive Coupling Clamp	Model: CA - CCC(SHV)	
4	CDN for EFT / Burst Immunity Test on Power Lines	Model: EFTN series or SEPN Series (for EUT with higher ratings) *Contact sales for further information	
5	Oscilloscope: 500 MHz	Recommended model: Tektronix MDO 3052	

Switch Impedance

EFT 700S	Built-in single-phase CDN, AC 400 V 32 A, DC 400 V 32 A
EFT 700T	Built-in 3-phase CDN, AC 400 V 32 A, DC 400 V 32 A
EFT 700G	Without CDN, need configure external CDN (EFTN / SEPN series) * Contact sales for detailed model.

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