

## 7kV Electrical Fast Transient/burst Simulator

### EFT 700x



#### In compliance with

- > IEC 61000-4-4
- > GB/T 17626.4
- > IEC 61000-6-1
- > IEC 61000-6-2

#### Introduction

EFT 700x series intelligent Electrical Fast Transient Simulator has been built-in fully automatic single-phase or three-phase power line coupling/decoupling network, and includes high voltage terminals to connect capacitive coupling clamp.

EFT 700S (built-in single- phase network)

EFT 700T (built-in three- phase network)

Meet the requirements of IEC 61000-4-4 with high reliability, stable performance, convenient to operate, etc.

#### Features

- > 5.7 inch colorful touch screen
- > Max. Pulse output voltage 7.0kV;
- > Parameter test scheduling test
- > Available for controlling external three-phase large current coupling/decoupling network (Max DC 1500V 100A、 AC 700V 100A three-phase five-wire) ;
- > Ethernet, RJ45 port for PC remote control, print and documentation;

#### Application Areas

- |                |                          |
|----------------|--------------------------|
| >Communication | > Information technology |
| > Telecom      | > Military               |
| > Medical      | > Aviation               |
| > Radio and TV | > New energy power       |
| > Railway      | > Electric Vehicle       |

General parameters	
Display screen	5.7 inch TFT touch screen
Working power supply range	AC 110 V/220 V, $\pm 10\%$ , 50/60 Hz $\pm 5\%$ (AC 220 V 50 Hz for China mainland)
Fuse	6 A
Power consumption	200 W
User storage space	Infinity (PC)
Communication mode	Ethernet LAN、RJ45
External control mode	D-sup 25p
External trigger input	BNC,5 V TTL
CRO trigger output	BNC,5 V TTL
Running control input	BNC,5 V TTL
Warning lamp output	0 ~ 220 VAC 10 A/0 ~ 48 V DC 3 A, depending on the type of external signal lamp
Safety circuit	Test only started when it is closed
Failure detection	Front panel LCD display and interrupt working
EUT voltage monitoring output	BNC, 100:1 coaxial terminal output (default L1-N voltage)
Working indicator	Front panel LED and LCD display
Grounding connection	Flat ground wire
EUT power injection	4mm2 banana plug
Detection output	Standard 1m coaxial cable
Size	19 inch/6 U
Weight	Approx.26 kg
Temperature range	15 ~ 35 °C
Humidity range	45% ~ 75%
Air pressure range	86kPa ~ 106kPa

EFT Pulse parameters	
Standard	IEC / EN 61000-4-4、GB/T 17626.4
Test voltage range	1.5 kV ~ 7.0 kV $\pm 10\%$
Polarity	+, -, Positive/Negative
Source impedance	50 ohm
Pulse waveform	5/50 ns,50 ohm and 1000 ohm load
Rise time	5 ns $\pm 30\%$ , 50 ohm load 1000 ohm load
Pulse duration	50 ns $\pm 30\%$ , 50 ohm load 50 ns -15/+100 ns, 1000 ohm load
Pulse frequency	0.1kHz ~ 100 kHz
Burst duration	Standard 75(1 ~ 267)
Burst period	11ms ~ 10100ms
Test duration	1s ~ 9999s
Trigger mode	Auto, manual or external
CDN	Built-in/Automatic; Coupling: capacitor; Decoupling: inductance; Residual voltage:<10%
EUTloading capacity	MAX AC 690 V 32 A , DC 1000 V 32 A

Standard Accessories	
1.CDN	5. Fuse
2. Three-core power cord	6. Coaxial cable
3.Test wire	7.Factory inspection report
4.Grounding wire	8.User manual

EFTN 38100T (Optional)	
External three-phase fully automatic CDN	As per EN/IEC 61000-4-4, voltage up to 4.2 kV ~ 6.3 kV
EUT load capacity	EFTN 38100T (AC 3×440 V 100 A three-phase five -wire 50/60 Hz、DC 500 V 100 A)
Crate size	19"/22 U
Weight	Approx.30 kg

EFTN 69100T (Optional)	
External three-phase fully automatic CDN	As per EN/IEC 61000-4-4, voltage up to 4.2 kV ~ 6.3 kV
EUT load capacity	EFTN 69100T (AC 3×700 V 100 A three-phase five-wire 50/60 Hz、DC 1000 V 100 A )
Crate size	19"/6 U
Weight	Approx.40 kg

EFTN 15100T (Optional)	
External three-phase fully automatic CDN	As per EN/IEC 61000-4-4, voltage up to 4.8 kV (7.0 kV customized)
EUT load capacity	EFTN 15100T (AC 3×700 V 100 A three-phase five-wire 50/60 Hz、DC 1500 V 100 A)
Cabinet size	19"/22 U
Weight	Approx.100 kg

Others (Optional)	
Capacitive coupling clamp	CCC data signal line test
Burst calibration kits	Including TFB 50/ TFB 1000, network port adapter and suitcase to meet burst calibration; TFB 50: input impedance 50Ω、 output impedance 50Ω、 attenuation 55dB; TFB 1000: input impedance 1000Ω、 output impedance 50Ω、 attenuation 60dB;
PC control software Corelab	With PC installed WIN 7, WIN 8 and WIN 10, it can be easily operated to make the measurement, based on the customized test program. It can identify any device with automatic configuration. It can easily generate test reports.



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