

7kV Electrical Fast Transient/burst Simulator

EFT 700x



As per standards

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

Summary

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 for front panel operation
- > Max. Pulse output voltage 7.0kV
- > Built-in fully automatic single-phase or three-phase coupling/decoupling network, coupling methods can be in any combination, test parameters can be set by scheduling.
- > Available for controlling external three-phase large current coupling/decoupling network (Max DC 1500V 100A、AC 700V 100A three-phase five-wire)

Application

- > Telecom
- > Medical
- > Radio and TV
- > Railway
- > Military
- > Aviation
- > New energy power

General parameters	
Display screen	5.7 inch TFT touch screen
Working power supply range	AC 110V/220V, ±10%, 50/60Hz ±5% (AC 220V 50Hz for China mainland)
Fuse	6A
Max. power consumption	200W
User storage space	Infinity (PC)
Communication mode	Ethernet LAN, RJ45
External control mode	D-sup 25p
External trigger input	BNC, 5V TTL
CRO trigger output	BNC, 5V TTL
Running control input	BNC, 5V TTL
External synchronization	45 – 65Hz, 20-500V between dotted and undotted terminals 0-500V between dotted, undotted terminals and crate
Warning lamp output	0-220VAC 10A/0-48V DC 3A 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	4mm ² banana plug
Detection output	Standard 1m coaxial cable
Size	19 inch/6U
Weight	Approx. 20Kg
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	1.5kV – 7.0kV ±10%
Polarity	+/-
Source impedance	50 ohm
Pulse waveform	5/50ns, 50 ohm and 1000 ohm load
Rise time	5ns ±30%, 50 ohm load 1000 ohm load
Pulse duration	50ns ±30%, 50 ohm load 50ns – 15 / + 100ns, 1000 ohm load
Pulse frequency	0.1kHz – 100kHz
Burst duration	0.075 ms – 750 ms, supporting numbers setting
Burst period	1 ms – 9999ms
Test duration	1s – 9999s
Trigger mode	Auto, manual or external
Synchronization	0° - 360°, 1° step or random (default collection L1-N phase angle, optional for collection any L-L or L-N)
Direct output method	By high voltage coaxial connector
Network	EFT 700S: Built-in single-phase the coupling/decoupling network AC 250V 16A DC -1 220V 16A
	EFT 700T: Built-in three-phase coupling/decoupling network AC 380V 16A DC -1 220V 16A

Standard equipped 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 4.8kV (7.0kVcustomized)
EUT load capacity	EFTN 38100T (AC 3×440V 100A three-phase five -wire 50/60Hz、 DC 500V 100A)
Crate size	19"/6U
Weight	Approx.30Kg

EFTN 69100T (Optional)	
External three-phase fully automatic CDN	As per EN/IEC 61000-4-4, voltage up to 4.8kV (7.0kVcustomized)
EUT load capacity	EFTN 69100T (AC 3×700V 100A three-phase five -wire 50/60Hz、 DC 1000V 100A)
Crate size	19"/6U
Weight	Approx.40Kg

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

Others (Optional)	
Capacitive coupling clamp	CCC data signal line test
Immunity test probe (producing electric field)	E40
Immunity test probe (producing magnetic field)	M40
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;



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