

8kV Electrical Fast Transient/burst Simulator

EFT 800x



In Compliance with

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

Introduction

EFT 800x series including EFT 800G(source output), EFT 800S (built-in single-phase coupling/decoupling networks) and EFT 800T (built-in three-phase coupling/decoupling networks) are newly designed intelligent EFT/Burst simulators, which comply with IEC 61000-4-4 with test voltage ranging from 200 V to 8000 V and frequency from 100 Hz to 1000 kHz. The maximum EUT load capacity is AC 690 V 32 A, DC 1000 V 32 A.

The generator features with high reliability, stable performance and easy to use.

Features

- > 5.7-inch colorful touch screen;
- > Maximum pulse output voltage 8.0 kV;
- > Parameter test scheduling test
- > Built-in single-phase or three-phase coupling/decoupling networks, load capacity max. AC 440 V 32 A, DC 1000 V 32 A. Customization is available for specific requirement;
- > Ethernet, RJ45 port for PC remote control, print and documentation;

Application Areas

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|-----------------|----------------------|
| > Communication | > IT |
| > Telecom | > Military |
| > Medical | > Aviation |
| > Broadcast | > New energy power |
| > Railway | > New energy vehicle |

Technical Parameters	
Standard	IEC/EN 61000-4-4, GB/T 17626.4
Test Voltage	200 V ~ 8.0 kV, $\pm 10\%$
Source Output Voltage	190 V ~ 7600 V $\pm 20\%$, into 1 k Ω load 100 V ~ 4000 V $\pm 10\%$, into 50 Ω load
CDN Output Voltage	200 V ~ 4000 V $\pm 10\%$, into 50 Ω load
Source Impedance	50 $\Omega \pm 30\%$
Rise time	Source port: 4 ns $\pm 30\%$, into 50 Ω /1000 Ω load CDN port: 4 ns ~ 7 ns, into 50 Ω load
Pulse Width	Source port: 50 ns $\pm 30\%$, into 50 Ω load; 35 ns ~ 150 ns, into 1 k Ω load; CDN port: 30 ns ~ 60 ns, into 50 Ω load
Polarity	positive, negative, alternation
Frequency	100 Hz ~ 1000 kHz
Pulse Number in one burst	≥ 75
Burst Period	11ms ~ 9999ms
Test Time	1 s ~ 9999 s
CDN	Built-in /automatic, Residual voltage < 10%
EUT Load Capacity	MAX AC 690 V 32 A, DC 1000 V 32 A

Standard Accessories	
Three-core power line, Test lines, Ground line, User manual, Coaxial cable, Fuses (spare parts)	

General Parameters	
Display Screen	5.7-inch TFT touch screen
Working Power	AC 110 V/220 V ($\pm 10\%$) , 50 Hz /60 Hz (220 V in mainland China)
Fuse	6 A
Max. Power	300 W
Memory Space	Infinite (PC)
Communication Mode	Ethernet LAN、RJ45
External Control Mode	D-25 pin
CRO Trigger Output	BNC, 5 V TTL
External Trigger Input	BNC, 5 V TTL
Running Control Input	BNC, 5 V TTL
External Sync. Input	45 Hz ~ 65 Hz, 20 V ~ 500 V for voltage between dotted and undotted terminal. 0 ~ 500 V for voltage between dotted, undotted terminal and chassis.
Working Status Indication	LED indication and LCD display on front panel
Earthing Mode	Flat earth line
EUT Power Injection Mode	4 mm ² banana plug
Monitor Output Mode	Standard 1 m coaxial cable
Dimension	19" / 4 U
Weight	Approx. 25 kg
Ambient Temperature	15 °C ~ 35 °C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Options for External CDN	
EFTN 38100T	
External three-phase automatic CDN	Comply with IEC/EN 61000-4-4, test voltage up to 7,0 kV
EUT load capacity*	Three-phase-5-line, AC 440 V 100 A, DC 500 V 100 A ,50/60 Hz
EFTN 69100T	
External three-phase automatic CDN	Comply with IEC/EN 61000-4-4, test voltage up to 7,0 kV
EUT load capacity*	Three-phase-5-line, AC 700 V 100 A, DC 1500 V 100 A ,50/60 Hz

*EUT load capacity can be customized according to specific requirement.

Other Optional Accessories	
Capacitive Coupling Clamp CCC 100	For tests on lines connected to signal and control port
EFT/Burst Calibration Kit	Including attenuator (TFB 500 and TFB 1000), adapter and suitcase. TFB 500: input impedance 50 Ω, output impedance 50 Ω, voltage ratio 500:1; TFB 1000: input impedance 1000 Ω, output impedance 50 Ω, voltage ratio 1000:1;
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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