

# 8 kV EFT/Burst Generator      EFT 800S/EFT 800T

## Datasheet



### In Compliance with

- > IEC/EN 61000-4-4
- > IEC/EN 61000-4-5
- > GB/T 17626.4
- > GB/T 17626.5

### Introduction

The 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 440 V 32 A, DC 1000 V 32 A.

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

### Features

- > 5.7" color touch screen for operation;
- > Maximum pulse output voltage 8.0 kV;
- > Built-in single-phase/three-phase coupling/decoupling networks, load capacity max. AC 440 V 32 A, DC 1000 V 32 A. Customization is available for specific requirement;

### Application Areas

- > Communication      > IT
- > Telecom              > Military
- > Medical               > Avionics
- > Broadcast            > New energy electrical 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 $\Omega$ load 100 V ~ 4000 V $\pm 10\%$ , into 50 $\Omega$ load
CDN Output Voltage	200 V ~ 4000 V $\pm 10\%$ , into 50 $\Omega$ load
Source Impedance	50 $\Omega \pm 30\%$
Rise time	Source port: 5 ns $\pm 30\%$ , into 50 $\Omega$ /1000 $\Omega$ load CDN port: 4 ns ~ 7 ns, into 50 $\Omega$ load
Pulse Width	Source port: 50 ns $\pm 30\%$ , into 50 $\Omega$ load; 35 ns ~ 150 ns, into 1 k $\Omega$ load; CDN port: 30 ns ~ 60 ns, into 50 $\Omega$ load
Polarity	positive, negative
Frequency	100 Hz ~ 1000 kHz
Pulse Number in one burst	$\geq 75$
Burst Period	1 ms – 9999 ms
Test Time	1 s – 9999 s
CDN	Built-in /automatic, Residual voltage < 10%
EUT Load Capacity	MAX AC 440 V 32 A, DC 1000 V 32 A

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

General Parameters	
Display Screen	5.7" 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 <sup>2</sup> banana plug
Monitor Output Mode	Standard 1 m coaxial cable
Dimension	19"/ 4U
Weight	Approx. 25 kg
Ambient Temperature	15 °C ~ 35 °C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Options for External CDN	
<b>EFTN 38100T</b>	
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
<b>EFTN 69100T</b>	
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 Options	
Capacitive Coupling Clamp CCC 100	For tests on lines connected to signal and control port
EFT/Burst Calibration Kit	Including attenuator (TFB 1000H and TFB 2000H), adapter and suitcase. TFB 1000H: input impedance 50 Ω, output impedance 50 Ω, voltage ratio 1000:1; TFB 2000H: input impedance 1000 Ω, output impedance 50 Ω, voltage ratio 2000:1;
Corelab	Remote control software



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