

## EFT/ Burst Simulator

## EFT 500x



### In compliance with

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

### Introduction

The EFT 500 series is the multifunctional test simulator for EFT/Burst with a built-in single phase or three phase coupling /decoupling network. It is designed to meet the requirements of electronic and electrical standards. Stable performance and good reliability make the EFT 500 an optimum standalone solution for both testing during development and final testing of products and sub-assemblies. With internal automatic single phase or three-phase CDN, it is featured with good reliability, stable performance and easy use.

### Features

- > 5.7 inch color touch screen front panel operation
- > Output voltage can reach 5.0 kV
- > Internal automatic single phase or three-phase CDN
- > Programmable setup of test parameters
- > Controlled external three-phase high current CDN
- > EFT 500S (single phase network)
- EFT 500T (three-phase network)
- > Ethernet, RJ45 port for PC remote control, print and documentation

### Application Areas

- |                 |                    |
|-----------------|--------------------|
| > Communication | > Technology       |
| > Telecom       | > Military         |
| > Medical       | > Avionics         |
| > Broadcast     | > New energy       |
| > Railway       | > Electric Vehicle |

General Parameters	
Display screen	5.7 inch TFT color touch screen
Working mains	AC 110 V/220 V, ±10%, 50/60 Hz, ±5% (default AC 220V 50 Hz)
Fuse	6 A
Power consumption	200 W
Memory space	Infinite (PC)
Communication mode	Ethernet, RJ45
External trigger input	BNC, 5 V TTL
Operation control input	BNC, 5 V TTL
Failure detection	LCD front panel display and Interrupt instrument work
Working indicator	LED, LCD front panel display
Grounding mode	Flat ground wire
Size	19 inch /4 U
Weight	Approx. 26 kg
Temperature	15 ~ 35 °C
Humidity	45% ~ 75%
Air pressure range	86kPa ~ 106kPa

Standard Accessories	
Simulator, user manual, factory test report, test cable, power cord and two fuses	

EFT/Burst test as per IEC 61000-4-4 Burst module	
Test voltage	0.2 kV ~ 5.0 kV ±10% Calibration voltage for 250 V
Polarity	+/-/alternative
Source impedance	50 ohm
Pulse waveform	5/50 ns, 50 ohm load; 1000 ohm load
Rise time	5 ns ± 30%, 50 ohm load, 1000 ohm load
Pulse duration	50 ns ± 30%, 50 ohm load
	50 ns ~ 15/+100 ns, 1000 ohm load
Pulse frequency	0.1 kHz ~ 1000 kHz
Burst duration	0.001ms ~ 1000ms Support number setting
Burst cycle	11ms ~ 10100ms
Test duration	1 s ~ 9999 s
Trigger mode	Automatic, manual or external
Synchronization	0° ~ 360°, 1° step or random
Network attenuation ratio	<10% of setting voltage
network	EFT 500S built-in single CDN AC 250 V/32 A; DC-1 220 V/32 A; EFT 500T built-in three phase CDN AC 690 V/32 A; DC-1 1000 V/32 A

**Optional Accessories**

1. EFT CDN EFTN series IEC 61000-4-4  
EFTN 3832T (three-phase AC 380V 32A)  
EFTN 38100T (three-phase AC 380V 100A)  
EFTN 6932T(three-phase AC 690V 32A)  
EFTN 69100T(three-phase AC 690V 100A)  
EFTN 15100T(three-phase AC (3×700V 100A)

2. Capacitance coupling clamp CCC data signal line test

3. Burst calibration devices, including TFB 500/TFB 1000, network port adapter and suit case:  
TFB 500: INPUT impedance 50 ohm, OUTPUT impedance 50 ohm, Attenuation ratio: 500:1  
TFB 1000: INPUT impedance 1000 ohm, OUTPUT impedance 50 ohm, Attenuation ratio: 1000:1

4. 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.



## **SUZHOU 3CTEST ELECTRONIC CO., LTD.**

Add.: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

Tel: +86 (0)512 6807 7192      Fax: +86-512-68079795

Sales Email: [globalsales@3ctest.cn](mailto:globalsales@3ctest.cn)      Service Email: [service@3ctest.cn](mailto:service@3ctest.cn)

[www.3c-test.com](http://www.3c-test.com)