

EFT/ burst simulator

EFT 500x



As per

- > 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

Description

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
- > 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

Industries

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

General data	
Display screen	5.7 inch TFT color touch screen
Working mains	AC 110V/220V, $\pm 10\%$, 50/60Hz, $\pm 5\%$ (default AC 220V 50Hz)
Fuse	6A
Max. Power consumption	200W
Memory space	Infinite (PC)
Communication mode	Ethernet, RJ45
External control	D-sub 25p
External trigger input	BNC ,5V TTL
CRO output	BNC ,5V TTL
Input	BNC ,5V TTL
Synchronization	45-65Hz, 20-500V between dotted terminal & undotted terminal 0-500V among dotted terminal, undotted terminal and case
Warning LED	0-220VAC 10A/0-48VDC 3A Depending on external signal lamp
Safety circuit	Test only can be started when it is closed
Failure test	Display on LCD and interrupt the work at failure case
EUT voltage monitoring output	BNC, 100:1 coaxial terminal output
Working indicator	LED, LCD front panel display
Grounding connection	Flat ground line
EUT power injection	4mm ² banana plug
Output mode	Standard 1m coaxial cable
Size	19 inch /4U
Weight	Approx. 17Kg
Temperature	15-35°C
Humidity	45%-75%

EFT/Burst test as per IEC 61000-4-4	
Burst module	
Standard	IEC/EN 61000-4-4, GB/T 17626.4
Test voltage	0.25kV-4.8kV $\pm 10\%$ Network 0.25kV-4.2kV $\pm 10\%$
Polarity	+/-/alternative
Source impedance	50 ohm
Rise time	5ns $\pm 30\%$, 50 ohm load, 1000 ohm load
Pulse duration	50ns $\pm 30\%$, 50 ohm load 50ns-15/+100ns, 1000 ohm load
Pulse frequency	0.1kHz-1000kHz (2000kHz customized)
Burst duration	0.075ms-1000ms (change with voltage frequency upper limit)
Burst cycle	11ms-9999ms (more than burst duration)
Test duration	1s-9999s
Pulse setting	Two setting modes: number of pulse and pulse time
Trigger mode	Automatic, manual or external
Synchronization	0° - 360°, 1° step or random
Coupling network	Internal three-phase AC/DC automatic CDN
Internal automatic CDN for EFT500 series	
CDN voltage range	0.25 kv - 4.2kv
CDN attenuation ratio	<10% setting voltage value
EFT 500S	Internal single phase CDN, AC 250V/16A;DC-1 220/12A
Coupling mode	L, N, PE and other combinations
EFT 500T	Internal three-phase CDN, AC 380V/16A; DC-1 220/12A
Coupling mode	L1 L2 L3 N PE and other combinations
Other types of CDN need to be customized	

Optional accessories

1. EFT CDN

EFTN series IEC 61000-4-4

EFTN 3832T (three-phase 380V 32A) EFTN 6932T(three-phase 690V 32A)

EFTN 38100T(three-phase 380V 100A) EFTN 6916T(three-phase 690V 16A)

2. Capacitance coupling clamp CCC data signal line test

3. Immunity test probe (produce electric field) E40

Immunity test probe (produce magnetic field) M40

4. Burst calibration devices, including TFB50/TFB1000, network port adapter and suit case

5. PC control software EMSLab

With PC installed WIN XP and WIN7, 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.

Basic equipments

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



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