

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
Working indicator	LED, LCD front panel display
Size	19 inch /4U
Weight	Approx. 17Kg
Temperature	15–35°C
Humidity	45%–75%
Air pressure range	86kPa–106kPa

EFT/Burst test as per IEC 61000-4-4	
Burst module	
Test voltage	0.25kV-4.8kV $\pm 10\%$
Polarity	+/-/alternative
Source impedance	50 ohm
Pulse waveform	5/50ns, 50 ohm 1000 ohm load
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
Burst duration	0.075ms-750ms
Burst cycle	11ms-9999ms
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
Network attenuation ratio	<10% of setting voltage
network	EFT 500S built-in single CDN AC 250V/16A; DC-1 220V/16A EFT 500T built-in three phase CDN AC 380V/16A; DC-1 220V/16A

Optional accessories

1. EFT CDN

EFTN series IEC 61000-4-4

EFTN 38100T (three-phase AC 380V 100A)

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

EFTN 69100T(three-phase AC 690V 100A)

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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