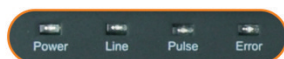


EFT 500_x

Electronic Fast Transient Simulator

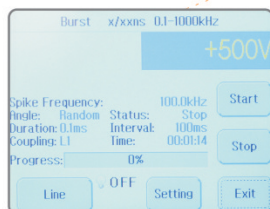
The Third
Generation





LED running indicator

Power: power indicating lamp
Line EUT: power on
Pulse: pulse
Error: error warning lamp



Touch screen

All functions and parameters are displayed. Set up parameters directly on the screen

Operating buttons

Left to right: run/pause, stop, main menu, back, cursor shift, enter



External Trigger

Line Out output
Line Out ground
GRP terminal



Coupling/decoupling network output



CDN power input

Synchronization input

Reference earth connection

The generator has to be connected to the reference earth plane of the test setup. The connection at the rear part of the generator is an alternative to the grounding point.

Safety circuit

Warning lamp

A voltage free contact is available for external warning indications. The signal is generated after pressing TEST ON.

Safety circuit

The test can only be started if the Safety circuit is turned off. If the circuit is opened during a running test the simulator will be switched off immediately.

Supply voltage selector AC110V/AC220V

LAN port Serial port Control CN port

External trigger Test process control

General Description:

The EFT 500 series is the multifunctional test generator for EFT/Burst with a built-in coupling /decoupling network for single phase or three phase mains supply lines. Its performance fully complies with IEC 61000 - 4 - 4 ed 2: 2004. Pre - programmed standard test routines and a number of selected user test routines make the EFT 500 an optimum standalone solution for both testing during development and final testing of products and sub-assemblies.

As per:

IEC 61000-4-4
IEC/EN 61000-6-2
EN 61000-4-4
IEC/EN 61850-3
GB/T 17626.4
IEC/EN 61000-6-1
IEC/EN 60601-1-2
IEC/EN 61326
ANSI/IEEE C62.41

Features:

5.7 inch color touch screen
Built-in single phase coupler (EFT 500S)
and three phase coupler(EFT 500T)
Be able to connect high-current CDN up to 100A
Ethernet, RJ45, PC control and test report

General details	
Display	5.7" TFT colorful touch screen
Power supply	110V/220V, $\pm 10\%$, 50/60 Hz
Fuse	10A
Max consumption	100W
Memory space	Infinite (pc)
Communication mode	Ethernet, RJ 45
External control	D-sub 25p
External trigger input	BNC, 5V TTL
CRO trigger output	BNC, 5V TTL
Input	BNC, 5V TTL
Synchronization	10-500Hz, 20-500V between dotted terminal & undotted terminal
	0-500V among dotted terminal, undotted terminal& case
Warning LED	0-220V AC 10A/0-48V DC 3A
	Power depends on external signal lamp
Safety circuit	The test only can be started when it is closed
Failure test	Display on LCD and interrupt the work in the failure case
Voltage monitor output	BNC, 100:1 coaxial terminal output
Working indicator	LED,LCD display
Grounding connection	Flat grounding line
EUT power injection	4mm banana line
Output code	1m coaxial cable
Size	19"/4U
Weight	35kg
Temperature	15-35°C
Humidity	45%-75%

EFT Electrical Fast Transients Burst as per IEC 61000-4-4

Burst Module	
Standards	IEC/EN 61000 - 4 - 4, GB/T 17626.4
Test voltage range	0.2 kV - 5 kV $\pm$ 10%
	0.2 kV - 5 kV $\pm$ 10%
Polarity	Positive, negative, alternative
Source impedance	50 ohm
Pulse waveform	5 / 50ns, 50 ohm and 1000 ohm load
Rise time	5 ns $\pm$ 30%, 50 ohm load, 1000 ohm load
Pulse duration	50 ns $\pm$ 30%, 50 ohm load
	50 ns - 15 / + 100 ns, 1000 ohm load
Pulse repetition	0.1 kHz - 1000 kHz
Burst duration	0.075 ms - 750 ms
Burst cycle	1 ms - 999 ms
Test duration	1 s - 9999 s
Trigger	automatic, manual, external
Synchronization	0° - 360°, 1° step or random
CDN	Built-in single phase

Built-in CDN for EFT 500 series

Voltage range	0.2kV - 5kV
Attenuation ratio	10% less than the set voltage value
EFT 500S	Built-in single phase CDN, 250V / 16A
Coupling mode	L, N, PE and the combination
DUT AC power	Single phase: 250V / 16A, 50/60 Hz
DUT DC power	110V 16A
EFT 500T	Built-in three phase CDN, three phase : 3 $\times$ 440V / 30A
Coupling mode	L1, L2, L3, N, PE and the combination
DUT AC power	Three phase : 3 $\times$ 440V / 30A, 50/60 Hz
DUT DC power	110V 16A
Other types of CDN can be customized	

Accessories

1. EFT coupling /decoupling network
EFTN series comply with IEC61000-4-4
EFTN 3832T (triphas 380V 32A) EFTN 6932T (triphas 690V 32A)
EFTN 383100T (triphas 380V 100A) EFTN 6916T (triphas 690V 16A)
2. Capacitive coupling clamp CCC signal line test
3. Immunity test probe (E - field) E40
Immunity test probe (M - field) M40
4. EFT calibration set including TFB50/TFB 10000,
network port, adaptor and case
5. PC software EMSlab
With PC installed WIN XP and WIN7, it can be easily operated to conduct the measurement, based on the customized test program. It can generate test report automatically.

Basic equipment

generator, manual, test report, test cable, power cord, fuse

Quality & Service For EMC



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