

EFT/ Burst Simulator

EFT 500x

Datasheet



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
- > 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 220 V 50 Hz)
Fuse	6 A
Max. Power consumption	200 W
Memory space	Infinite (PC)
Communication mode	Ethernet, RJ45
Working indicator	LED, LCD front panel display
Size	19 inch /4U
Weight	Approx. 23 Kg
Temperature	15 °C–35 °C
Humidity	45%–75%
Air pressure range	86 kPa–106 kPa

Optional accessories
1. EFT CDN EFTN series IEC 61000-4-4 EFTN 38100T (three-phase AC 380 V 100 A) EFTN 6932T (three-phase AC 690 V 32 A) EFTN 69100T (three-phase AC 690 V 100 A)
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
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.

EFT/Burst test as per IEC 61000-4-4	
Burst module	
Test voltage	0.25 kV - 4.8 kV ± 10%
Polarity	+/-/alternative
Source impedance	50 ohm
Pulse waveform	5/50 ns, 50 ohm 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	0.075 ms - 750 ms
Burst cycle	11 ms - 9999 ms
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 / 16 A; DC-1 220 V / 16 A EFT 500T built-in three phase CDN AC 380 V / 16 A; DC-1 220 V / 16 A

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



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