

High Voltage and High Power EFT/Burst Test System

EFT 700G&EFTN 70300T



In compliance with

- > IEC 61000-4-4
- > GB/T 17626.4
- > IEC 61000-6-1
- > IEC 61000-6-2

Introduction

EFT 700G/EFTN 70300T high-voltage and high-power pulse group test system is a specially designed high-voltage and high-power test equipment, and its performance fully meets the EU CE certification and CCC certification. The system has built-in EFT 700G signal generator host and EFTN 70300T tn-s high-power automatic superposition coupling/decoupling network, which can meet the requirements of new energy testing system and high-power load testing. EUT voltage can reach DC 1500 V and AC 700 V, current for 310 A and other EUT voltage and current levels can be customized according to customer requirements.

Features

- > EUT DC voltage: 1500 V 310 A
- > EUT AC voltage: 700 V 310 A , three-phase
- > Output voltage can reach 7.0 kV
- > Programmable setup of test parameters
- > Controlled external three-phase high current CDN
- > Phase angle superposition of arbitrary lines

Application Areas

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

Technical Parameters	
EFT/Burst Generator EFT 700G	
Test voltage	0.2 kV ~ 7 kV ±10%
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	Standard Number:75(1-267)
Burst cycle	11ms ~ 10100ms
Test duration	1 s ~ 9999 s
Trigger mode	Automatic, manual or external
Synchronization	0° ~ 360°, 1° step or random

General Parameters	
Generator size	4 U
Coupling/Decoupling Network size	800×1200×1050 mm
Weight	About 100 kg
Temperature	15 ~ 35 °C
Humidity	45% ~ 75%
Air pressure range	86kPa ~ 106kPa

Coupling/Decoupling Network EFTN 70300T	
Three-phase automatic Coupling/Decoupling Network	Test voltage can reach 7 kV
EUT loading ability	MAX 700 V 50/60 Hz, three-phase; MAX DC 1500 V; Current 310 A
EUT Short-term impulse current	Peak current: 400 A
EUT Switching mode	Automatic switching
phase synchronization	L1、L2、L3、N、PE, Phase angle superposition of arbitrary lines
Coupling path	L1、L2、L3、N、PE, any path
Coupling capacitor	33 nF
Residual pulse voltage at EUT injection end	Not exceeding 10% of the applied test pulse voltage

Standard Accessories	
User manual, factory test report, power cord, two fuses, test lines, coaxial-line, ground line, CN 25 line	

Optional Accessories

1. Capacitance coupling clamp CCC data signal line test

2. 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

3. 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.



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