

Power Fail Simulator

PFS 6916T



- IEC 61000-4-11
- GB/T 17626.11

Features

- > 5.7-inch color TFT touch screen
- > Support Max. input voltage AC 690 V, Max. continuous current 18 A
- > Built-in multi-functional test module combination
- > Voltage/current measurement
- > Ethernet RJ45 interface, used for PC remote control and test reports printing

Introduction

PFS 6916T power fail simulator, in compliance with IEC 61000-4-11 and GB/T 17626.11, performs immunity tests for voltage dips and short interruptions caused by power network faults, substation failures or sudden large load variation. Equipped with controllable semiconductor switches capable of withstanding instantaneous impulse currents, the simulator adopts a combination of built-in multifunctional test modules, featuring voltage and current measurement acquisition and test sequence functions.

With a maximum AC input voltage of 690 V and a maximum continuous current of 18 A, the PFS 6916T is applicable to testing scenarios including communication, telemedicine, broadcast, television, railway, information technology, aerospace, new energy power and other industries.

Application Areas



Technical Parameters

EUT Input Voltage	Max. 690 V AC, 50 Hz /60 Hz
EUT Cont. Current	Max. 18 A
Withstand Impulse Current	500 A
EUT Voltage/Current Measurement	LCD display
Protection	Built-in overcurrent, short-circuit, overvoltage, overheat, surge, burst and ESD protection; Optional external accessories for Line in, Line out port
Interruption Level	0%
Voltage Interruption Mode	Selectable single/two/three-phase voltage interruption
Voltage Dip Level	0% ~ 100%
Voltage Dip Mode	Line to neutral & Line to line
Duration for Dips and Interruptions	0.3 ~ 9,999 circles or 10 ms ~ 99,999 ms
Interval for Dips and Interruptions	50 ms ~ 50,000 ms
Test Counter	1 ~ 9,999
Rise and Fall Time for Dips and Interruptions	1 ~ 50 μ s (standard resistance calibration)
Synchronization	0°~ 360°, 1°step or random mode
Trigger Mode	Manual, automatic, external trigger input

General Parameters

Display Screen	5.7-inch TFT touch screen
Working Power	AC 110 V/220 V, $\pm$ 10%, 50 Hz /60 Hz
Fuse	6 A
Power Consumption	Max. 300 W
Memory Space	Infinite (PC)
Communication Mode	Ethernet LAN, RJ45
External Trigger Input	BNC, 5 V TTL
CRO Trigger Input	BNC, 5 V TTL
Run Control Input	BNC, 5 V TTL
External Synchronous Input	45 ~ 65 Hz; voltage between homonymous and non-homonymous terminals: 20 ~ 500 V
Warning Lamp Output	0 ~ 220 V AC, 10 A / 0 ~ 48 V DC, 3 A Power supply depends on the type of external signal lamp used
Safe Loop	Stop working when the safety circuit is not closed
Failure Detection	Display on LCD and interrupt the work at failure case
Measurement Output Method	Standard 1-meter coaxial cable
Working Status Indication	Front panel LED indication, LCD display
Grounding Method	Flat grounding wire

General Parameters

Dimension	22 U rack, 600 (W)*1,250 (H)*800 (D) mm
Weight	Approx. 190 kg
Ambient Temperature	15 °C ~ 35 °C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Test Cable, Fuse, Flat Grounding Wire, RF Cable, User Manual

Optional Accessories

1	Calibration Impedance Box	Model: R100Ω/1134 Impedance: 100 Ω±10% Power: 2,000 W Generator rated current: ≤50 A Model: R50Ω/1134 Impedance: 50 Ω±10% Power: 3,000 W Generator rated current: 50 A ~ 100 A Model: R25Ω/1134 Impedance: 25 Ω±10% Power: 6,000 W Generator rated current: >100 A	
2	Calibration Device of Peak Impulse Current	Mode: PIC 1134 Capacitance: 1,700 μF Discharge Resistor: 4,700 Ω Max. rated voltage: AC 230 V, DC 350 V Peak Impulse Current Driving Capacity: Max. 500 A (for 220 V ~ 240 V supply) Max. 250 A (for 100 V ~ 120 V supply)	
3	Remote Control Software	Model: CoreLab > Support Windows 7/8/10 /11 > Supports Ethernet > Supports scheduling and test sequence, easy for operation > Supports single test and sequence test reports printing, and user-defined templates > Supports emergency stop for safe test	

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