

# Power Fail Simulator

## PFS 69200T1F



- IEC 61000-4-34
- GB/T 17626.34

### Features

- > 5.7 inch color touch screen front panel operation
- > Fully compatible with IEC 61000-4-34 testing
- > Voltage/current measurement
- > Voltage limiter, current limiter, overvoltage, overcurrent protection function
- > Programmable test procedures
- > Ethernet RJ45 interface, used for PC remote control and printing test reports

### Introduction

The PFS 69200T1F simulates the impact of voltage dips, interruptions, and voltage variations on electrical and electronic equipment in the power grid. The reasons for these voltage changes are due to faults in the power grid, substation equipment, or sudden large changes in load. Testing such phenomena is to verify whether electrical and electronic equipment can avoid unsafe operating conditions when encountering voltage fluctuations. The device is equipped with controllable semiconductor switches, which can withstand instantaneous impulse currents more than 1000 A and have electronic short circuit protection function and can fully be compliant with IEC 61000-4-34 and GB/T 17626.34.

### Application Areas



## General parameters

Display Screen	5.7-inch TFT touch screen
Working Power	AC 220 V, $\pm 10\%$ , 50/60 Hz
Fuses	6 A
Maximum Power Consumption	300 W
Memory Space	Infinite (PC)
Communication Methods	Ethernet LAN, RJ45
External Trigger Input	BNC, 5 V TTL
CRO Trigger Output	BNC, 5 V TTL
Operation Control input	BNC, 5 V TTL
External Synchronous Input	45-65 Hz, 20-500 V between dotted terminal & undotted terminal
Failure Detection	Display on LCD and interrupt the work at failure case
Working Status Indication	Front panel LED indication, LCD display
Grounding Connection Method	Flat grounding cable
Measurement Output Method	Standard 1-meter coaxial cable
Dimension	35U rack cabinet, 600 mm (L)*800 mm(W)*1830 mm (H)
Weight	Approx. 450 kg
Ambient Temperature	15 °C- 35 °C
Relative Humidity	45% - 75%
Atmospheric Pressure	86 kPa - 106 kPa

## Technical Parameters

In Compliance with	IEC 61000-4-34
EUT Input Voltage	Max. 690 V, 50/60 Hz
EUT Current	Max. 202 A cont.
EUT Voltage/Current Measurement	LCD display
Withstand Impulse Current	> 1,000 A
Protection	Built-in over current, short circuit, over voltage, over heat, surge, burst, ESD protection; Optional external accessories for Line in, Line out port
Interruption Level	0%
Dips Level	0%, 40%, 70%, 80%
Voltage Dips Mode	Line to neutral & Line to line IEC61000-4-34: Figure3a, 3b
Duration for Dips and Interruptions	0.3-9,999 cycles 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 $\mu$ s (standard resistance calibration)
Sync	0°~ 360°, 1°step or random mode
Trigger Mode	Manual, automatic, external trigger input

### Accessories

Power Cord, EUT Power Supply Cables, Grounded Cable, RF cables, Fuses, Factory Reports, User Manuals

### Optional Accessories

1	Control Software	<p>Model: Corelab                  Compatible with Windows 7/6/10/11                  Support Ethernet Interface                  Support test sequence setting, Test Report generation function.</p>	
2	Calibration Impedance Box	<p>Model: R100Ω/1134                  Impedance 100Ω±10%                  Power consumption: 2,000 W                  Generator Rated Current: ≤50 A</p>	
		<p>Model: R50Ω/1134                  Impedance 50Ω±10%                  Power consumption: 3,000 W                  Generator Rated Current: 50A&lt;I≤100 A</p>	
		<p>Model: R25Ω/1134                  Impedance 250Ω±10%                  Power consumption: 6,000 W                  Generator Rated Current: &gt;100 A</p>	

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