

Power Failure Simulator

PFS 2230SV



- IEC 61000-4-34
- IEC 61000-4-11
- GB/T 17626.34
- GB/T 17626.11

Features

- > 5.7-inch color touchscreen for front panel operation
- > Voltage and current measurement and acquisition
- > Support voltage dip, short interruption and voltage variation tests
- > Built-in multifunctional test module combination
- > Built-in overvoltage, overcurrent, voltage limiting and current limiting protection
- > Ethernet RJ45 interface for PC remote control and test report printing
- > 0% ~ 100% adjustable voltage dips and voltage variations
- > IEC 61000-4-34 / GB/T 17626.34 compliant
- > IEC 61000-4-11 / GB/T 17626.11 compliant, for rated currents ≤ 10 A

Introduction

The PFS 2230SV Power Failure Simulator is designed in accordance with IEC 61000-4-34 and IEC 61000-4-11. It simulates voltage dips, short interruptions, and voltage variations caused by power grid or substation faults and sudden load changes.

The PFS 2230SV is used to verify whether electrical and electronic equipment can operate safely under such disturbances. The series features controllable semiconductor switches capable of withstanding high inrush currents, as well as electronic short-circuit protection.

Application Areas



Technical Parameters

EUT Voltage and Current Measurement	LCD display
EUT Max. Input Voltage	250 V AC, 50/60 Hz
EUT Max. Continuous Current	32 A
Inrush Current Withstand Capability	500 A
Protection	Built-in overcurrent, short-circuit, overvoltage, overtemperature, surge, EFT/burst and ESD protection. Optional external protection accessories for Line in/Line out ports (e.g. warning lights, emergency stop buttons)
Interruption Level	0%
Voltage Dip Level	0% ~ 100%
Voltage Dip and Interruption Duration	0.3 ~ 9,999 cycles or 10 ms ~ 99,999 ms
Voltage Dip and Interruption Interval	50 ms ~ 50,000 ms
Voltage Dip and Interruption Counter	1 ~ 9,999
Voltage Dip and Interruption Rise/Fall Time	1 μ s ~ 5 μ s
Synchronization	0° ~ 360°, 1° step setting or random mode
Trigger Mode	Manual, automatic, external trigger input

General Parameters

Display Screen	5.7-inch TFT touchscreen
Working Power	AC 110 V ~ 240 V $\pm$ 10%, 50/60 Hz
Fuse	6 A
Max. Power Consumption	300 W
Storage Space	Infinite (PC)
Communication Mode	Ethernet LAN, RJ45
Auxiliary Interface	D-sub 25p
External Trigger Input	BNC, 5 V TTL, no contact, trigger to close
CRO Trigger Input	BNC, 5 V TTL
Operation Trigger Input	BNC, 5 V TTL
External Synchronization Input	45 Hz ~ 65 Hz 20 ~ 500 V between the same-polarity and opposite-polarity terminals 0 ~ 500 V between the terminals and chassis
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
Safety Circuit	Stop work when safety circuit is open
Failure Detection	LCD display in front panel and stop work when failure occurs
Working Status Indication	LED indication and LCD display on the front panel
Grounding Method	Flat grounding wire
Dimension	22 U rack, 600 (L) * 1,250 (W) * 800 (H) mm
Weight	Approx. 193 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75% RH (no condensation)
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

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

Optional Accessories

1	Immunity Test Software	Model: CoreLab > Support Windows 7/8/10 /11 > Supports Ethernet and serial communication modes > Supports parameter sequence, test sequences, easy for operation > Supports customer information configuration and automatic test report printing.	
2	Model: R100Ω/1134	Model: R100Ω/1134 Impedance: 100 Ω Accuracy: ± 10% Power: 2,000 W Generator rated current: ≤50 A	
3	Calibration Device of Peak Impulse Current	Model: PIC 1134 Capacitance: 1,700 μF Discharge resistor: 4,700 Ω Current monitoring output: 100 A: 1 V Max. rated current: AC 230 V, DC 350 V	

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