

# Direct-Current Power Failure Simulator PFS 0505D

## Datasheet



### In Compliance with

- > IEC 61000-4-29: 2000
- > GB/T 17626.29-2009

### Introduction

Direct-current power failure simulator PFS 0505D is a specially designed generator for DC system immunity tests, capable of simulating conditions of voltage dips, short interruption and variation on the DC power input port. The equipment boasts intelligent control and automatic measuring with imbedded technologies, which simplify the system and stabilize the performance. The unique LCD operation and powerful human-machine interaction functions also bring more convenience.

### Features

- > 5.7" color touch screen front panel;
- > Built-in multifunction modules
- > Test sequencing and scheduling
- > Ethernet RJ 45 interface for PC control, printing test reports

### Application Areas

- |                 |                      |
|-----------------|----------------------|
| > Communication | > IT                 |
| > Telecom       | > Military           |
| > Medical       | > Avionics           |
| > Broadcasting  | > New energy power   |
| > Railway       | > New energy vehicle |

Technical Parameters	
Rated Voltage	1 V - 50 V, 0.1 V step
Voltage Dips / Surge Voltage	0-120%
Voltage Dips / Surge Duration	0.1 ms -59.999 s
Voltage Rise / Fall Time	< 50 $\mu$ s (generator loaded with 100 $\Omega$ resistive load)
Overshoot/undershoot of the Output Voltage	Less than 10 % of the change in voltage (generator loaded with 100 $\Omega$ resistive load)
Time Intervals	0.1 s – 60 s (the min. time depends on the test voltage)
Measuring Accuracy	Voltage:1% ( $\pm$ 0.1 V); Current: 1% ( $\pm$ 0.1 A);
Max. Output Current (Steady State)	$\leq$ 5 A
Number of Tests	1 – 9,999
Ripple Content	Less than 1% of the output voltage
Load Adjustment Rate	Output voltage variation with the load (0 to rated current) <5%
Output Impedance during a Short Interruption	>100 k $\Omega$

General Parameters	
Display Screen	5.7" TFT touch screen
Working Power Supply	AC 110 V / 220 V ( $\pm$ 10%), 50 Hz / 60 Hz (Default AC 220 V 50 Hz in mainland China)
Fuse	10 A
Max. Power Consumption	1,000 W
User's Memory Space	Infinite (PC)
Communication Mode	Ethernet LAN, RJ45
Working Status Indication	LED indication and LCD display on front panel
Dimension	19", 4 U x 2 pcs
Weight	Approx. 40 kg
Ambient Temperature	15°C- 35°C
Relative Humidity	45%–75%
Atmospheric Pressure	86 kPa–106 kPa



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