

# Vehicle-Mounted Power Failure Simulator

# PFS 181

## Datasheet



### In Compliance with

- > MIL-STD-704
- > RTCA/DO-160E
- > GJB 181-86
- > GJB 181A-2003

### Introduction

Vehicle-mounted power failure simulator PFS 181 is specially designed generator for DC voltage dips immunity tests, capable of simulating conditions of voltage dips, short interruption and variation of the DC power supply. 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

- > Built-in multifunction modules
- > Adjustable voltage rise/fall time
- > Test sequencing and scheduling
- > Ethernet RJ 45 interface for PC control, printing test reports

### Application Areas

- > Telecom
- > IT
- > Pharmaceuticals
- > Broadcasting
- > Train & rail transit
- > Military
- > Avionics
- > New energy

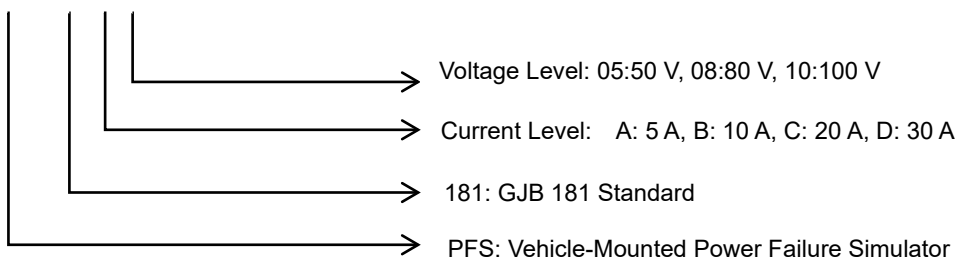
Technical Parameters	
Rated Voltage	0 – 100 V, 0.1 V step
Voltage Dips / Surge Voltage	0 – 100 V, 0.1 V step
Voltage Dips / Surge Time	0.1 ms – 59.999 s
Voltage Rise / Fall Time	0.1 ms – 10 s, adjustable (the min. depends on the test voltage)
Upper/Lower Overshoot of Output Voltage	< 10% of voltage variation (when load impedance of the generator is 100 Ω)
Time Interval	0.1 s – 60 s
Measuring Accuracy	Current: 1% ± 0.1 A
Max Output Current (Steady State)	See Optional Models
No. of Tests	1 – 9,999
No. of Ripple	< 1% of rated output voltage
Over-Current Protection Mode	Set arbitrarily from 1A to max. value of current
Load Adjustment Rate	<5% (rate of change of the voltage with the load, 0 to rated current)
Output Impedance for Interruption	>100 kΩ

General Parameters	
Display	5.7" TFT touch screen
Operating Power Supply	8U equipment: 220 V, 50 / 60 Hz, ± 10% 22U equipment: none
Auxiliary working power	AC 380 V
Fuse	6 A (8U equipment)
Max Power	300 W (main control part)
Dimension	19", 4 U x 2 pcs
Weight	Approx 40 kg
Operating Temp.	15°C - 35 °C
Operating Humidity	45% - 75%
Operating Air Pressure	86 kPa – 106 kPa

Optional Models	
PFS 181A10 (8U)	Max output voltage: 100 V; Max output current: 5 A;
PFS 181B10 (8U)	Max output voltage: 100 V; Max output current: 10 A;
PFS 181C10 (8U)	Max output voltage: 100 V; Max output current: 20 A;
PFS 181D10 (8U)	Max output voltage: 100 V; Max output current: 30 A;
PFS 181E10 (22U)	Max output voltage: 100 V; Max output current: 40 A;
PFS 181F10 (22U)	Max output voltage: 100 V; Max output current: 50 A;

Naming Rule:

PFS 181A10





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