

Automotive Power Failure Simulator

PFSxxA series



As per Standards

- > BMW GS 95003-2
- > BMW GS 95024-2-1
- > Chrysler CS-11809
- > Chrysler CS-11979
- > Chrysler PF-9326
- > Cummins 14269
- > DaimlerChrysler DC-10615
- > DaimlerChrysler DC-10842
- > DaimlerChrysler PF-10541
- > Fiat 9.90110
- > Ford EMC-CS-2009.1
- > Ford ES-XW7T-1A278-AB
- > Ford ES-XW7T-1A278-AC
- > Ford WDR 00.00EA
- > Freightliner 49-00085
- > GMW 3172
- > Hyundai/Kia ES 95400-10, Rev. D
- > Hyundai/Kia ES 96100-02
- > Hyundai ES 39110-00
- > Iveco 16-2103 Rev.15
- > EMC-CS-2010JLR V1.1
- > VW80000-2013
- > MBN LV 124-1: 2011

Summary

PFS A series Automotive Power Failure Simulator is standalone test equipment with electronic switch inside, it can simulate voltage dip and drop (micro interruption) and ensure the voltage fast rising or falling time to be within 1 μ s. It needs two DC voltage sources for simulating voltage dip, but needs only one DC voltage source for simulating voltage drop (micro interruption). With the original technology of output impedance variable, it can simulate the power failure much more closely, simulating open circuit at high impedance and short circuit at low impedance, waveforms complying with standards under different resistive loads. PFS A series Automotive Power Failure Simulator can be operated manually or via Ethernet interface controlled by AutoLab software. EUT power supply voltage can be switched quickly under the program control. The switch has two input ports to connect two power supplies. The load bearing of DC switching is up to 60V, available for 42V power system test.

Features

- > Standalone test equipment used for voltage dip and short interruption test
- > Rising/fall time < 1 μ s
- > With electronic short circuit protection function
- > Rated voltage 60V DC
- > 5.7 inch color touch screen operation on front panel
- > Standard test program
- > Ethernet interface

Application Areas

- > Automobile

| PFS 6030A Technical Parameters | |
|---------------------------------------|--|
| Voltage at primary input terminal PF1 | 0 to 60 V |
| Current | 30A |
| Switching time | Less than 1us (rising/fall time) ; less than 10us for high resistance 1kΩ |
| Peak Current | Two times of the rated current with duration 500ms |
| Output impedance | High resistance or low resistance |

| PFS 6050A Technical Parameters | |
|---------------------------------------|---|
| Voltage at primary input terminal PF1 | 0 to 60 V |
| Current | 50A |
| Switching time | Less than 1us (rising/fall time) ; |
| Peak Current | Two times of the rated current with duration 500ms |
| Output impedance | High resistance or low resistance |

| PFS 6075A Technical Parameters | |
|---------------------------------------|---|
| Voltage at primary input terminal PF1 | 0 to 60 V |
| Current | 75A |
| Switching time | Less than 1us (rising/fall time) ; |
| Peak Current | Two times of the rated current with duration 500ms |
| Output impedance | High resistance or low resistance |

| PFS 60100A Technical Parameters | |
|---------------------------------------|---|
| Voltage at primary input terminal PF1 | 0 to 60 V |
| Current | 100A |
| Switching time | Less than 1us (rising/fall time) ; |
| Peak Current | Two times of the rated current with duration 500ms |
| Output impedance | High resistance or low resistance |

| Trigger | |
|-----------------------|--|
| Trigger | Auto or manual |
| CR0 Trigger | External trigger signal by oscilloscope, BNC,5V TTL |
| Drop duration time td | 1us to 10 s |
| Repetition rate | 100 ms to 999s |

| Protection Circuit | |
|-------------------------|--------------------------|
| Safety | Short circuit protection |
| Over voltage protection | 60 V |

| General data | |
|--------------|--------------|
| Dimension | 19" / 4U |
| Weight | Approx. 20kg |
| Temperature | 15 - 35°C |
| Humidity | 45% - 75% |

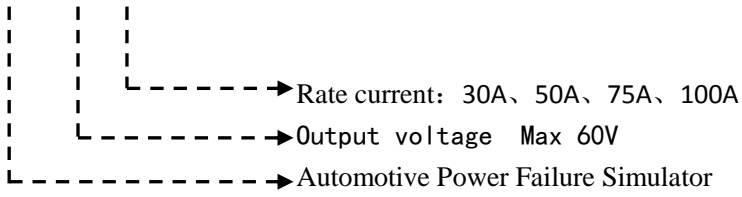
| Basic equipments | |
|---|--|
| Simulator, user manual, factory test report, test cable, power cord and fuse. | |

| Software (optional) | |
|---|--|
| PC control by AutoLab | |
| Support windowsXP and Windows7, easy to operate and nice-looking appearance | |
| Kinds of operating functions and standard library can be self-defined by users. It is available to identify the connected devices automatically/manually and configure automatically. | |
| Based on template report, users can generate test report flexibly. | |

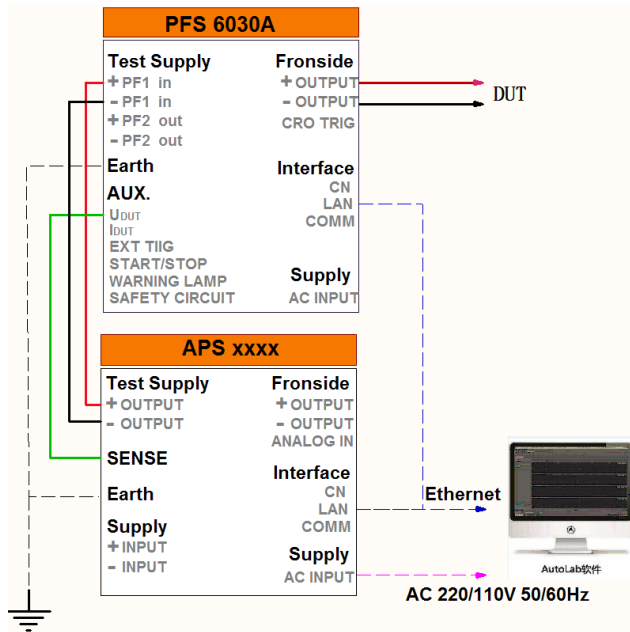
| PFS A models | |
|--------------|---|
| PFS 6030A | Output voltage Max 60V, Rate current 30A |
| PFS 6050A | Output voltage Max 60V, Rate current 50A |
| PFS 6075A | Output voltage Max 60V, Rate current 75A |
| PFS 60100A | Output voltage Max 60V, Rate current 100A |

Naming rules:

PFS 60 30 A



The test connection diagram:





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