

Automotive Power Failure Simulator

PFS A series



As per

- > BMW GS 95003-2
- > Chrysler PF-9326
- > Fiat 9.90110
- > Ford EMC-CS-2009.1
- > Chrysler CS-11979
- > Chrysler CS-11809(2009)
- > Cummins 14269(982022-026)
- > DaimierChrysler DC-10842
- > BMW GS 95024-2-1(2010-01)
- > Ford ES-XW7T-1A278-AB
- > Many automobile manufacturers test standards

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.

Application

- > Automobile

| Feature |
|--|
| > Standalone test equipment used for voltage dip and short interruption test |
| > Rising/fall time < 1 us |
| > 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 |

| PFS A models |
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| > PFS 6030A Power Failure Simulator, 60 V / 30 A |
| > PFS 6050A Power Failure Simulator, 60 V / 50 A |
| > PFS 6075A Power Failure Simulator, 60 V / 75 A |
| > PFS 60100A Power Failure Simulator, 60 V / 100 A |
| > PFS 60150A Power Failure Simulator, 60 V / 150 A |
| > PFS 60200A Power Failure Simulator, 60 V / 200 A |

| 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. |

| Technical Parameters | |
|---|---|
| Voltage at primary input terminal PF1 | 0-60 V |
| Current | Max.30/50 |
| Voltage drop | 1V max@30A |
| Voltage at auxiliary input terminal PF2 | 0-60V |
| Switching time | Less than 1us (rising/fall time) ; less than 10us for high resistance 1kΩ (test condition: test voltage 13.5V/0V , 1/100/1kΩ pure resistive load) |
| Peak current | PFS 6030A 60A duration time 500 ms PFS 6050A 100A duration time 500 ms |
| Output impedance | High resistance or low resistance |
| Safety | Short circuit protection |
| Over voltage protection | 60 V |
| Trigger | Auto, manual or external trigger |
| CRO trigger | External trigger signal by oscilloscope, BNC,5V TTL |
| Repetition rate | 100 ms - 999s |
| Drop duration time td | 1us - 10 s |
| Size and weight | 19" / 4 U, approx.20 kg |
| Interface | RJ45 Ethernet interface |
| DUT voltage monitoring output | BNC, 10:1 coaxial terminal output |
| DUT current monitoring output | BNC, 10A:1V coaxial terminal output |
| Temperature range | 15-35°C |
| Humidity range | 45%-75% |
| Air pressure range | 86kPa-106kPa |

Quality and Service for EMC



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