Automotive Power Failure Simulator PFSxxA series

Datasheet

In Compliance with

> BMW GS 95003-2
> BMW GS 95024-2-1
> Chrysler CS-11809
> Chrylser CS-11979
> Chrysler PF-9326
> Cummins 14269 (982022-026)
> 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

Introduction

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 1μs. 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 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

Application Areas

> Automobile

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

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

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

Trigger	
Trigger	Auto or manual
CRO 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. 20 kg
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.

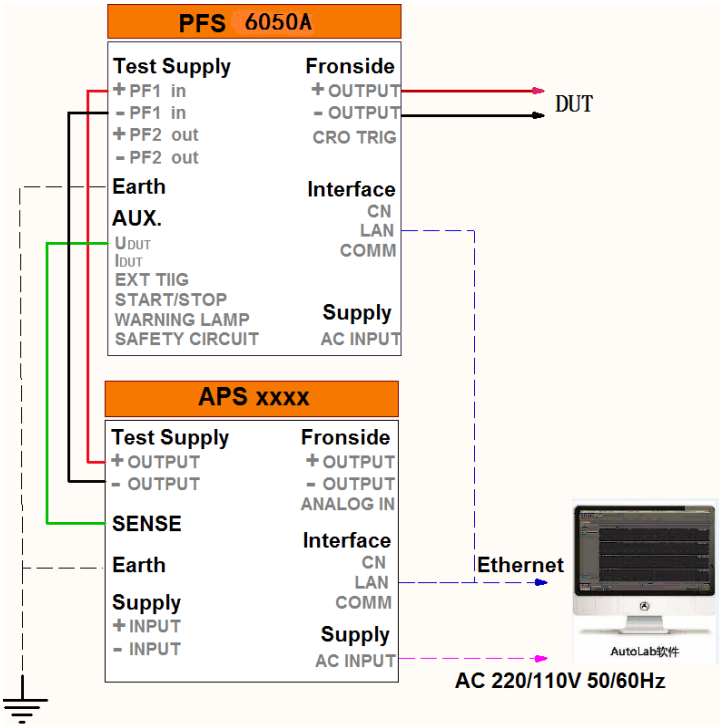
PFS A models	
PFS 6050A	Output voltage Max 60V，Rate current 50A
PFS 6075A	Output voltage Max 60V，Rate current 75A
PFS 60100A	Output voltage Max 60V，Rate current 100A

Naming rules：

PFS 60 50 A

- 50 A → Rate current：50 A、75 A、100 A
- 60 → Output voltage: 60 V
- PFS → Automotive Power Failure Simulator

The test connection diagram:



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