Automotive Power Failure Simulator

PFS 60100A2

- BMW GS 95003-2
- BMW GS 95024-2-1
- Chrysler CS-11809
- Chrysler 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
- VW80000:2022
- MBN LV 124-1: 2013
- VS-00.34-L-10002:2024

Features

> 5.7-inch color touch screen front panel operation

> Independent testing equipment for voltage dips, short interruptions, and drops

> Switching time: ≤ 200 ns (meets GM3172 9.2.18), ≤ 1 μs (meets LV124, VW 80000, etc.), 10 ns~1 μs (meets 7b in VS-00.34-L-10002)

> Equipped with current protection function

> Standard Test Procedure

Introduction

The PFS 60100A2 Automotive Power Failure Simulator is an independent testing device that utilizes semiconductor solid-state electronic switch technology to control the rapid rise or fall of voltage within 1 μs during simulated voltage dips and drops (micro interrupts). The unique output impedance variable technology can simulate power faults more realistically (including high impedance analog power open circuit and low impedance analog power short circuit), and ensure that the waveform meets standards under different loads (pure impedance).

The operation of the PFS 60100A2 series automotive power failure simulator can be done manually or controlled by AutoLab software through an Ethernet interface. The DC switch can carry a maximum of 80 V and supports testing of 48 V power supply systems.

Application Areas

Vehicles

Technical Parameters

Input Voltage	-80 V ~ 80 V
Rated Current	100 A
Switch Circuit	2 pairs of 4 wires
Switching Time	≤ 200 ns (meets GM3172 9.2.18), ≤ 1 μs (meets LV124, VW 80000, etc.), 10 ns~1 μs (meets 7b in VS-00.34-L-10002)
Peak Current	200 A duration of 500 ms
Output Impedance	High resistance or low resistance
Protection Circuit	Overvoltage (80 V), polarity reversal, overcurrent protection, short circuit protection
Fall Duration Td	1 μs ~ 1 h
Repetition Rate	1 μs ~ 1 h
Trigger Mode	Automatic and manual

General Parameters

Display	5.7-inch TFT touch screen
Scope of Working Power Supply	AC 220 V，50/60Hz
Fuse	6 A
Maximum Power Consumption	300 W
User StorageSpace	Unlimited (PC)
Communication Method	Ethernet LAN, RJ45
External Control Mode	25 needle parallel thread
Instrument Working Status Indication	Front panel LED indication, LCD display
Instrument Grounding Connection Method	Use a flat grounding wire
Chassis Size	19 inches/4U 450 mm (W) * 190 mm (H) * 620 mm (D)
Instrument Weight	About 30 kg
Ambient Temperature	15 ~ 35℃
Relative Humidity	45% ~ 75%, RH (no condensation)
Atmospheric Pressure	86 kPa ~ 106 kPa

Switching Impedance

Switching Impedance	Power cord: ＜ 50 mΩ
Built in Switch	Short circuit switch (DC+ and DC-) Impedance ＜ 100 mΩ
Built in Switch	High resistance, low resistance

Standard Accessories

Power Cord, Fuse, Test Wire, Grounding Wire, Instruction Manual, Calibration Resistors PFS-R1Ω, PFS-R100Ω, PFS-R1000Ω

Optional Accessories

1. Input voltage of 100 V can be customized
2.Computer online control software Autolab, supports Windows 7, Windows 8, and Windows 10. It is easy to use, has a beautiful and intuitive user interface, and various operation functions and standard testing libraries allow users to easily complete custom testing programs. It can automatically/manually identify the connected Autolab testing equipment and automatically configure it. Template based reporting function can help users flexibly generate test reports
3. DFS 4002A signal line fault simulator can be used in conjunction with this instrument for signal line fault simulation tests

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