



Automotive Power Failure Simulator

PFS 60200A2

- 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 μ s (meets LV124, VW 80000, etc.), 10 ns ~ 1 μ s (meets 7b in VS-00.34-L-10002)
- > Input Voltage ± 80 V, Current 200 A
- > Equipped with current protection function
- > Standard Test Procedure

Introduction

PFS 60200A2 Automotive Power Failure Simulator is an independent testing device, meets 9.2.18 in GWM 3172, LV124, VW 80000 and table 7b in VS-00.34-L-10002. By utilizing semiconductor solid-state electronic switch technology, the time for rapid voltage rise or fall during simulated voltage dips and dips (micro interrupts) can be controlled within 1 μ s. 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 60200A2 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	200 A
Switch Circuit	2 pairs of 4 wires
Switching Time	≤ 200 ns (meets GMW 3172 9.2.18), ≤ 1 μs (meets LV124, VW 80000, etc.), 10 ns ~ 1 μs (meets 7b in VS-00.34-L-10002)
Peak Current	400 A duration of 500 ms
Output Impedance	High resistance or low resistance
Switching Impedance	Power cord: < 50 mΩ
Built in Switch	Short circuit switch (DC+ and DC-) Impedance < 100 mΩ
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 Screen	5.7-inch TFT touch screen
Working Power	AC 220 V ± 10%, 50/60 Hz
Fuses	6 A
Maximum Power Consumption	300 W
Memory Space	Unlimited (PC)
Communication Methods	Ethernet LAN, RJ45
External Control Method	25 needle parallel thread
Working Status Indication	Front panel LED indication, LCD display
Grounding Connection Method	Use a flat grounding wire
Dimension	Host 19 inches/6U 450 mm(W)*280 mm(H)*620 mm(D)
Weight	About 22 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45%~75%,RH (no condensation)
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Test Wire, Grounding Wire, Fuses, Calibration Resistor PFS-R1Ω(200A), Calibration Resistor PFS-R100Ω(200A), Calibration Resistor PFS-R1000Ω(200A), User Manual, Inspection Report, Product Warranty Certificate

Optional Accessories	1	Signal Data Line Fault Simulator	Model: DFS 4002A The DFS 4002A signal line fault simulator meets the testing requirements of the German automotive manufacturer's general standard LV 124 standard pulse E10, E13, and E14, as well as LV 148 standard pulse E48-09.	
	2	Automotive Immunity Testing Software	Model: AutoLab Supports Windows 7, Windows 8, Windows 10 and Windows 11. It is easy to use, has a beautiful and intuitive user interface, and various operational functions and standard testing libraries allow users to easily complete custom testing programs. It can automatically/manually identify the connected AutoLab testing equipment and configure it automatically. Template based reporting function can help users flexibly generate test reports.	

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