CAR - PFS-80 I / II / III

Automotive Power Fail Simulator

- **Voltage dips and interruptions**
- **Rise-/ fall times < 1µs**
- **Battery voltage: 80V DC**
- **Battery current: I: 50A / II: 100A / III: 200A**

According to
ISO 7637: 2011
ISO 21848
…many manufacturer standards

The CAR - PFS-80 is an automotive power fail simulator, which is designed for performing fast voltage dips and drops (micro-interruptions) according to standard requirements, mainly from vehicle manufacturers.
The electronic switches in the generators allow switching times below 1 microsecond.

The generator contains two switches, which provide two operations modes:

- Voltage interruptions: An external connected DC voltage supply is via a switch connected to the E.U.T.. According to the test parameters, this voltage gets interrupted for defined times.
- Voltage dips: Another DC voltage supply is needed, to provide the voltage, the generator switches to at defined times. Therefore, the automotive power fail simulator provides at its rear panel an analogue output (0-10V) to control this power source automatically.

The CAR – PFS-80 including two power supply can also be easily integrated into a complete test set-up.
A microprocessor-controlled 7" touch screen display unit is integrated and permits an easy operation of the generator.
The software program CAR-remote permits the PC control of the generator via Ethernet and fiber optic and also allows the standardized documentation according to IEC 17025 and the evaluation of test results.
The user can use the standard test routines (ISO, VG, Car manufacturer specific) or define his own test sequences.
It is equipped with an Impulse Recording Function (IRF) to record definite impulses (with oscilloscope).

Furthermore, nearly all customer-specific impulse adjustments are possible by the flexible software control.

The CAR – PFS-80 excels by its compact design, simple handling and precise reproducibility of test impulses. High-voltage switching is accomplished by means of a maintenance-free semiconductor switches.

Options	Description
CAR-REMOTE	Remote control with Impulse Recording Function (IRF) (XP, WIN7, WIN10) incl. 5 m fibre optic cable and PC Ethernet interface
PS xx-xx	External controllable electronic power supply, up to 80V and 200A

Technical specifications:	CAR - PFS-80
Mainframe	
Microprocessor controlled touch panel	7”, capacitive
Optical Ethernet Interface for remote control of the generator	optional
Interface for saving reports	USB
External trigger input /output	Switch/ 10 V
Connector for external safety interlock loop	24 V=
External red and green warning lamps acc. to VDE 0104	230V / 60 W
Mains power	90V - 264V, 50/60 Hz
Dimensions desk top case, W * H * D	450*180*500 mm^3
Weight	15kg
Automotive power fail simulator	
E.U.T. voltage, maximum	80V DC
E.U.T. current, maximum	200A
Fall- and rise switching time	< 1µs
Rated current / Inrush current, max.	> 200A
Monitor output for mains voltage and mains current	built-in
Analogue power supply control interface	0-10V, BNC
Wait time	0.1 – 1000 s
Duration	1µs – 10s