



Voltage Ripple Disturbance Simulator

LFS 300A

■ Volkswagen MQB37_AB 8.1

Features

- > 5.7-inch color touch screen front panel operation
- > Integrated design delivers a simpler, safer and more durable system
- > All core components adopt high-quality imported materials, featuring reliable performance, exquisite appearance and user-friendly operation
- > Equipped with Ethernet and RJ45 ports for remote PC control and test report printing

Introduction

The LFS 300A Voltage Ripple Disturbance Simulator complies with the requirements specified in Section 8.1 of Volkswagen MQB37_AB. It meets the immunity requirements against electrical system ripples on high-voltage networks for new energy vehicle electric drives and high-voltage components.

This device boasts intelligent control and easy operation. Simply set relevant parameters on the interface, and you can launch the test with one click.

Application Areas



Technical Parameters

Frequency Range	1 kHz ~ 300 kHz, duty cycle 50%
Frequency Step	1 kHz / 10 kHz
Open-circuit Output Voltage (U_{pp})	Adjustable from 0.5 V to 50 V
Ripple Dwell Time	Adjustable from 1 s to 5 s
Generator Output Impedance	$Z_{out} \leq 0.5 \Omega$ ($Z_{out} = U_{pp}/I_{pp}$)
T_{Rise} , T_{Fall}	$< 1 \mu s$ under open-circuit voltage ($25 V_{pp}$)
T_{Rise} , T_{Fall}	$< 2.5 \mu s$ under short-circuit current ($\geq 50 A_{pp}$)
Current Capacity	$\geq 32 A$ (rms), $\geq 70 A$ (peak)
Coupling Mode	Differential mode: 120 μF (single-ended or double-ended optional) Common mode: 30 μF with 10 Ω resistor
Serial Interface	Ethernet LAN (RJ45)
Test Modes	HV+line-to-HV-line; HV+ line-to-ground; HV- line to ground; HV-&HV- line to ground

General Parameters

Working Power	AC 110/220 V, $\pm 10\%$, 45 Hz ~ 65 Hz
Weight	Approx. 70 kg
Dimension	8 U rack, 600(L)*450(D)*370(H) mm; 4 U rack, 625(L)*450(D)*195(H) mm;
Ambient Temperature	15°C ~ 35°C

Standard Accessories

User Manual, 2 sets of Equipment, Test Cable, Fuse

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