

Automotive Load Dump Simulator

EVDG 20

■ VM 80300

Features

- > 5.7-inch color touch screen
- > High-voltage load dump waveform generation
- > Built-in fault alarm function
- > Overcurrent protection
- > EUT current measurement and display

Introduction

The EVDG 20 Series is designed for the EHV-10 test specified in VW 80300:2021, covering two test items: EHV-10-1 and EHV-10-2. It features configurable trigger control and EUT power switching, and is designed for testing high-voltage electrical components in vehicles. Based on the company's third-generation development platform, the system supports intuitive touchscreen operation as well as remote control via PC software.

Application Areas



Technical Parameters

VW 80300_2021 (EHV-10)	EHV-10-1	EHV-10-2
Pulse Waveform	Approximately double-exponential	
Pulse Voltage	20 V ~ 200 V, ±10%	
Calibration Voltage	50 V ~ 200 V, ±10%	20 V ~ 200 V, ±10%
Pulse Width	10 ms (0% ~ 0%), ±10% @ 2 Ω load	≥1 ms (0% ~ 0%), open circuit
Voltage Change Rate (0% to 100%)	≥250 V/ms	≥3,000 V/ms
Output Impedance	0.16 Ω	
Pulse Interval	3 s ~ 99 s	
Pulse Polarity	Positive	
Number of Pulses	1 ~ 99	
Pulse Trigger Modes	Manual, automatic, and external	
Pulse Coupling	Pulse coupling transformer	
DUT Capacity	DC 1,500 V / 100 A (customizable)	
Input/Output Terminals	100 A solid terminal	
Note: The maximum load current is 100 A. Higher current ratings can be customized.		

General Parameters

Working Power	AC 220 V, $\pm 10\%$, 50/60 Hz ($\pm 5\%$)
Fuse	6 A
Grounding Method	Flat grounding wire
Dimension	22 U rack, 600 (W) * 1,250 (H) * 800 (D) mm
Weight	Approx. 187 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%, RH (no condensation)

Standard Accessories

Power Cord, User Manual, Test Cables, Flat Grounding Wire, Fuse,
CAL AD01 Calibration Adapter Box

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