

Electro-mobile Vehicles Pulse Disturbance Generator

EVPG 20

Datasheet



In Compliance with

> VW 80300:2016 EHV-10-2 & EHV-16

Introduction

The EVPG 20 is designed as per EHV-10 (load dump with rapid rate of change) and EHV-16 HV pulse specified in VW 80300:2016, which is used in vehicle HV electronic components test. It has 5.7-inch color touch screen for operation and also can be controlled by PC software.

Features

- > 5.7-inch color touch screen front panel operation;
- > Output load dump with rapid rate of change and HV pulse;
- > Built-in failure alarm function;

Application Areas

- > Vehicle

Technical Parameters	
Standard	VW 80300-2016 (EHV-10-2)
Waveform Feature	Double Exponential Wave
Pulse Voltage	10 V ~ 50 V, $\pm 20\%$ 50 V ~ 200 V, $\pm 10\%$
Pulse Width	$\geq 50 \mu\text{s}$ (0% ~ 0%)
Pulse Rise Time (0% ~ 100%)	$6.67 \mu\text{s} \pm 20\%$ (3000 V/ms@20 V)
Output Impedance	2Ω
Pulse Interval	1 ~ 99 s
Pulse Polarity	Positive only
Counter	1 ~ 99
Trigger Mode	Manual/Auto/External Trigger
Coupling Mode	Capacitor
Decoupling Mode	Diode
DUT Load	DC 1000 V/100 A

Accessories
3-core power line, user manual, test line, flat grounded line, fuse*2

Optional Accessories
Corelab test software Windows 7, Windows 8 and Windows 10 are supported, including various operating functions and standard libraries. Users can easily control the test equipment remotely, complete the test work, and automatically configure it to help users flexibly generate test reports.

General Parameters	
Display Screen	5/7 TFT touch screen
Mains Supply	AC 220 V, $\pm 10\%$, 50/60 Hz
Fuse	6 A
Max.Power Consumption	200 W
Dimension	4U
Weight	Approx. 25 kg
Relative Humidity	15 °C ~ 35 °C
Ambient Temperature	45% ~ 75% RH (no condensing)
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard	VW 80300-2016 (EHV-16)
Waveform Feature	Rectangular Wave
Pulse Voltage	10 V ~ 50 V, $\pm 20\%$ 50 V ~ 200 V, $\pm 10\%$
Pulse Width	10 μs ~ 20 $\mu\text{s} \pm 20\%$ 20 μs ~ 200 $\mu\text{s} \pm 10\%$
Pulse Rise Time (0% ~ 100%)	$\leq 300 \text{ ns}$ ($< 5 \text{ V/ns}$)
Output Impedance	2Ω
Pulse Interval	0.1 ~ 10 s
Pulse Polarity	Positive only
Counter	1 ~ 999
Trigger Mode	Manual/Auto/External Trigger
Coupling Mode	Capacitor
Decoupling Mode	Diode
DUT Load	DC 1000 V/100 A



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