

Ripple Signal Generator

RSG 80C50



- ISO/TS 7637-4
- ISO 21498
- ISO 11452.8
- VW 80300
- GJB 151B

Features

- > Equipped with overvoltage and overcurrent protection functions
- > Multiple operation modes
- > Low-frequency power amplifier 10 Hz ~ 300 kHz, Max. output voltage 160 V_{PP}, Max. output current 100 A_{PP}
- > Output voltage accuracy ± 0.2 V
- > Supports closed-loop AC voltage and current testing
- > Ethernet and RJ45 interfaces, used for PC remote control and printing test reports

Introduction

The RSG 80C50 Ripple Signal Generator complies with ISO/TS 7637-4, ISO 21498, VW 80300, GJB 151B and ISO 11452-8, fulfilling the requirements of Pulse B for transient conducted measurement of new-energy vehicle electric drive systems and high-voltage components.

Adopting our 3rd-generation control platform, the instrument delivers intelligent control and easy operation. Parameters can be configured via the AutoLab software for one-click test execution, with support for closed-loop AC voltage and current testing.

Application Areas



Technical Parameters

Frequency Range	10 Hz ~ 300 kHz
Frequency Step	0.01 Hz
Max. Output Voltage	160 V _{PP}
Max. Current Voltage	100 A _{PP}
Ripple Dwell Time	2 s ~ 999 s, resolution 0.1 s
Output Voltage Accuracy	± 0.2 V

General Parameters

Display Screen	5.7" TFT touch screen
Working Power	AC 380 V, ±10%, 50~60 Hz
Communication Interface	Ethernet LAN (RJ45)
Working Status Indication	LED indication and LCD display in front panel
Ground Connection	Flat grounding wire
Max. Power Consumption	6 kW
Dimension	22U rack, 1,250 mm (H) * 800 mm (D) * 600 mm (W)
Weight	Approx. 156 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%, RH (no condensation)
Max. Power Consumption	6 kW

Standard Accessories

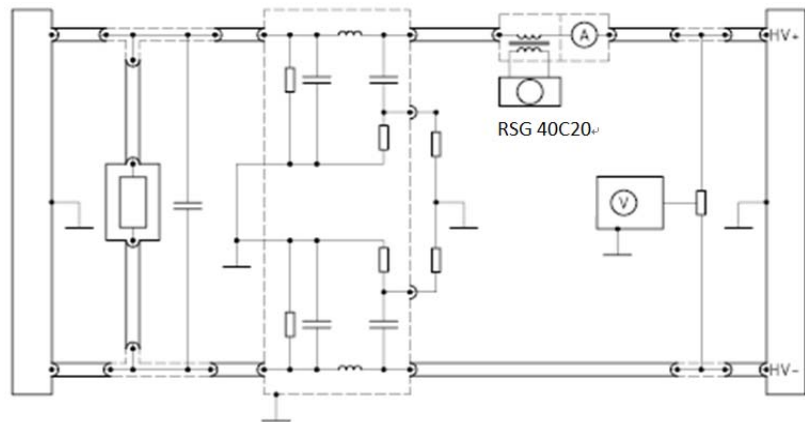
Power Cord, User Manual, Test Cable, Grounding Wire

Optional Accessories

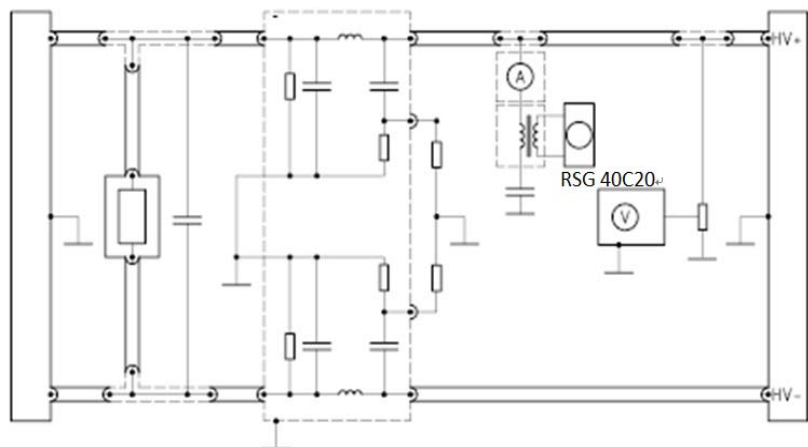
1	Coupling Transformer	Model: TPT-7637-4C100B Max. unsaturated voltage: 160 V_{PP} Max. coupling current: 100 A_{PP} Max. EUT current: DC 100 A Max. EUT voltage: DC 1,000 V Turns ratio: 1:1 Frequency: 10 Hz ~ 300 kHz	
2	PC Control Software	Model: AutoLab Support Windows 7/8/10/11; Users can easily customize test sequences and arbitrary waveforms. The system automatically identifies and enables flexible test report generation.	

Connection Diagram

ISO 7637-4, B-wave line-to-line



ISO 7637-4, B-wave HV+ line-to-ground:



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