

Ripple Signal Generator

RSG 80C100



- 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 200 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 80C100 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	200 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	12 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 (Non-condensing)

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	Coupling Transformer	Model: TPT-7637-4C300B1/B2 Max. unsaturated voltage: 140 V _{PP} Max. coupling current: 100 A _{PP} Max. EUT current: DC 300 A Max. EUT voltage: DC 1,000 V Turns ratio: 1:1 Frequency: 10 Hz ~ 300 kHz	
3	Coupling Transformer	Model: TPT-7637-4C1000B Max. unsaturated voltage: 160 V _{PP} (2:1) Max. coupling current: 400 A _{PP} (4:1) Max. EUT current: DC 1,000 A Max. EUT voltage: DC 1,000 V Turns ratio: 2:1, 4:1 Frequency: 300 Hz ~ 150 kHz	
4	Coupling Transformer	Model: TPT-7637-4C1000C Max. unsaturated voltage: 160 V _{PP} (1:1) Max. coupling current: 240 A _{PP} (4:1) Max. EUT current: DC 1,000 A Max. EUT voltage: DC 1,000 V Turns ratio: 1:1, 2:1, 4:1 Frequency: 300 Hz ~ 150 kHz	 3CTE 2 / 3

Optional Accessories

3	Coupling Transformer	Model: TPT-7637-4C1000B Max. unsaturated voltage: 160 V _{PP} (2:1) Max. coupling current: 400 A _{PP} (4:1) Max. EUT current: DC 1,000 A Max. EUT voltage: DC 1,000 V Turns ratio: 2:1, 4:1 Frequency: 300 Hz ~ 150 kHz	
4	Coupling Transformer	Model: TPT-7637-4C1000C Max. unsaturated voltage: 160 V _{PP} (1:1) Max. coupling current: 240 A _{PP} (4:1) Max. EUT current: DC 1,000 A Max. EUT voltage: DC 1,000 V Turns ratio: 1:1, 2:1, 4:1 Frequency: 300 Hz ~ 150 kHz	
5	Oscilloscope	Model: Tektronix MDO3014 Bandwidth: 100 MHz Sample rate: 1.25 GS/s Memory depth: 10 Mb	
6	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.	

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