

CAR - Arbitrary-Waveform-Generator

CAR - AWG 75

EMC-Test Equipment for electrical installation of vehicles

- Simulator for sinusoidal disturbance
- Frequency range 100kHz – 250MHz
- Over voltage protection



According to
ISO 7637-4: 2020

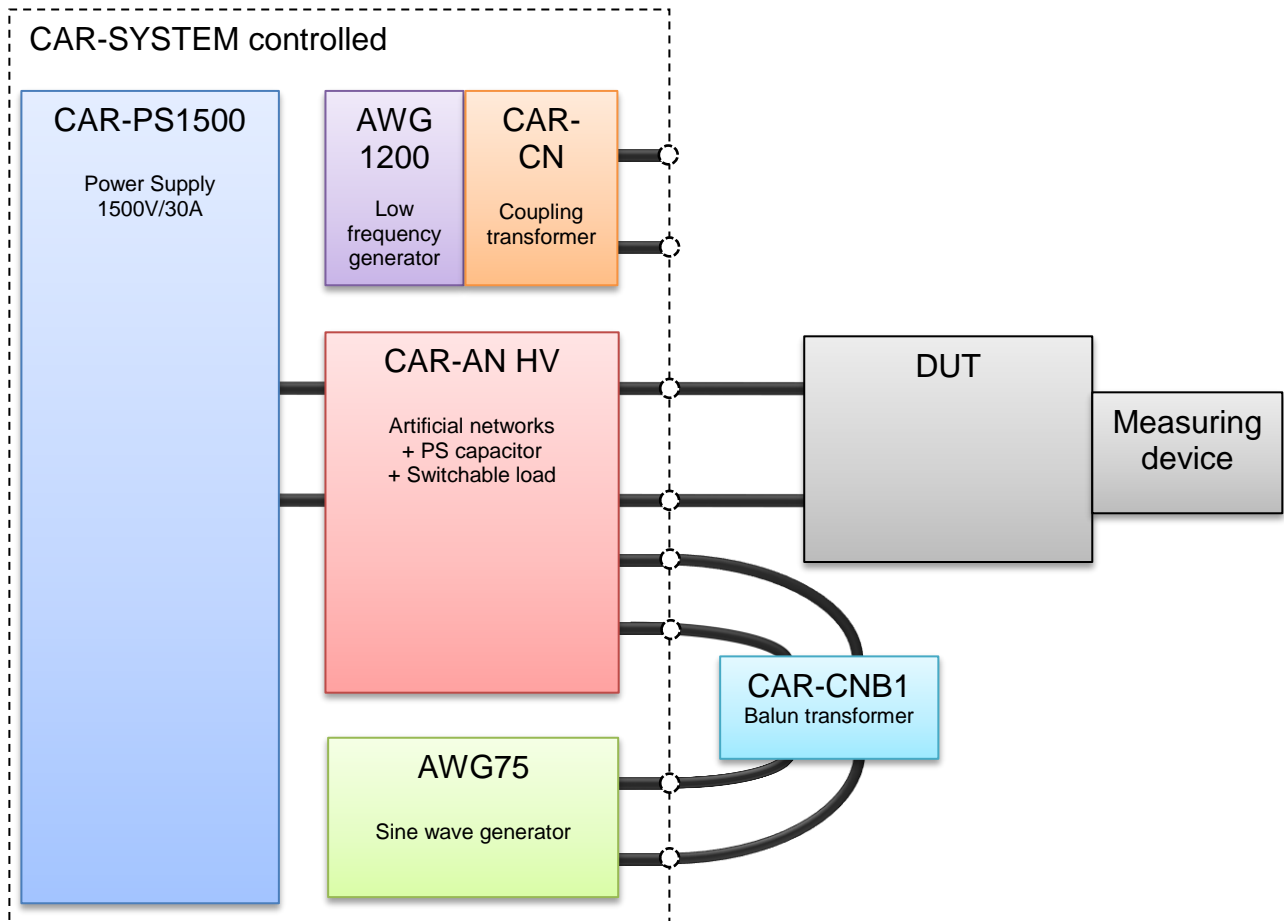
The CAR arbitrary waveform generator 75 is a compact EMC testing system for creating sinusoidal disturbances on high voltage supply lines of vehicles as of ISO 7637-4:2020 test pulse A. The generated disturbance is coupled over the CAR-AN HV direct to HV+ or HV- or over the coupling balun CAR-CNB1 to HV+ and HV- simultanly. The system strictly complies with the international standards and manufacturer standards that describe phenomena on the power supply lines of vehicles.

The software program CAR-Remote permits the PC control of the generator via Ethernet and allows the standardized documentation according to IEC 17025 and the evaluation of test results.

Control	Description
CAR-REMOTE-AWG	Remote software with Impulse Recording Function (IRF) (XP, WIN7, WIN10) incl. Ethernet switch

Setup for a full setup to fulfil standard ISO7637-4:2020:

In example for connection of waveform A:



TECHNICAL SPECIFICATIONS:
CAR – AWG 75
Mainframe

Ethernet Interface for remote control of the generator	Built-in
Connector for external safety interlock loop	24 V=
Mains power	90V - 264V, 50/60 Hz
Dimensions, case, W * H * D	449 x 133 x 435.5 mm ³
Weight	10kg

Amplifier

HF broadband voltage and current amplifier	
Frequency range	100kHz – 250MHz
Max. Input Voltage	1 Vrms
Gain	51 dB nominal
Input / Output Impedance	50 Ω
Max. Power	75W
Flatness	±1.5 dB maximum
Overvoltage protection	✓
Cooling	Controlled fans and heat sink

Arbitrary

Resolution	14 Bit
Sample rate	20MSa/s
Max. Points	16MSa
Segment types	DC, Sinus, Sinesweep, Ramp, Exponential function