



HVR 1200RG

Artificial Network

Key Features:

- Rated DC voltage: 1,200 V
- Rated DC current: 1,200 A (continuous)
- Rated superimposed AC current: 350 Arms
- Resistance values RiHV (changeable):
10 mΩ / 25 mΩ / 50 mΩ / 60 mΩ / 100 mΩ
- Rated continuous power dissipation: 108 kW
- Internal Cs = 10,000 μF (switchable)
- Internal Cy (values selectable)
- DC connection terminals: up to 4 x 185 mm²
at HV+ and HV-
- Integrated Current Sensor (+/- 1200 Arms,
400kHz, total accuracy 6 ppm)

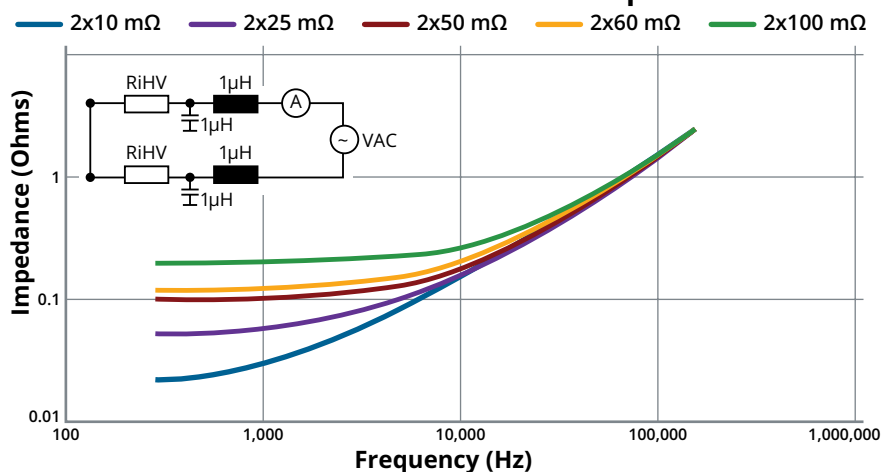
For Measurements According to:

ISO 21498-2 • VW 80300 • MBN 11123

Used in conjunction with the HVR 1200RG Shielded Coupling Network to create an Artificial Network as specified in ISO 21498-2, MBN 11123 and VW80300.

- Impedance matches requirements of ISO21498-2
- Resistance values: 10 mΩ to 100 mΩ
- Supports DUT currents up to 1200A continuous

Measurement Data of Artificial Network per ISO21498-2



SPECIFICATIONS:

- Internal Capacitor: 10,000 uF switchable (in/out)
- Cy: values selectable
- Ri circuits: 10 Ω , 25 m Ω , 50 m Ω , 60 m Ω 100 m Ω
- Power Dissipation: 108kW

EXTERNAL INTERFACE:

- DC link voltage measurement: +/- 2 M Ω internal
- Ethernet connection to internal control: (measurement of HVDC-voltage, temperatures, switching Cs, Interlock)
- Cs capacitor coupling contactors: 24 VDC, 2 A
- Cs capacitor coupling contactor supervision (aux contacts): 3x NO

POWER REQUIREMENTS:

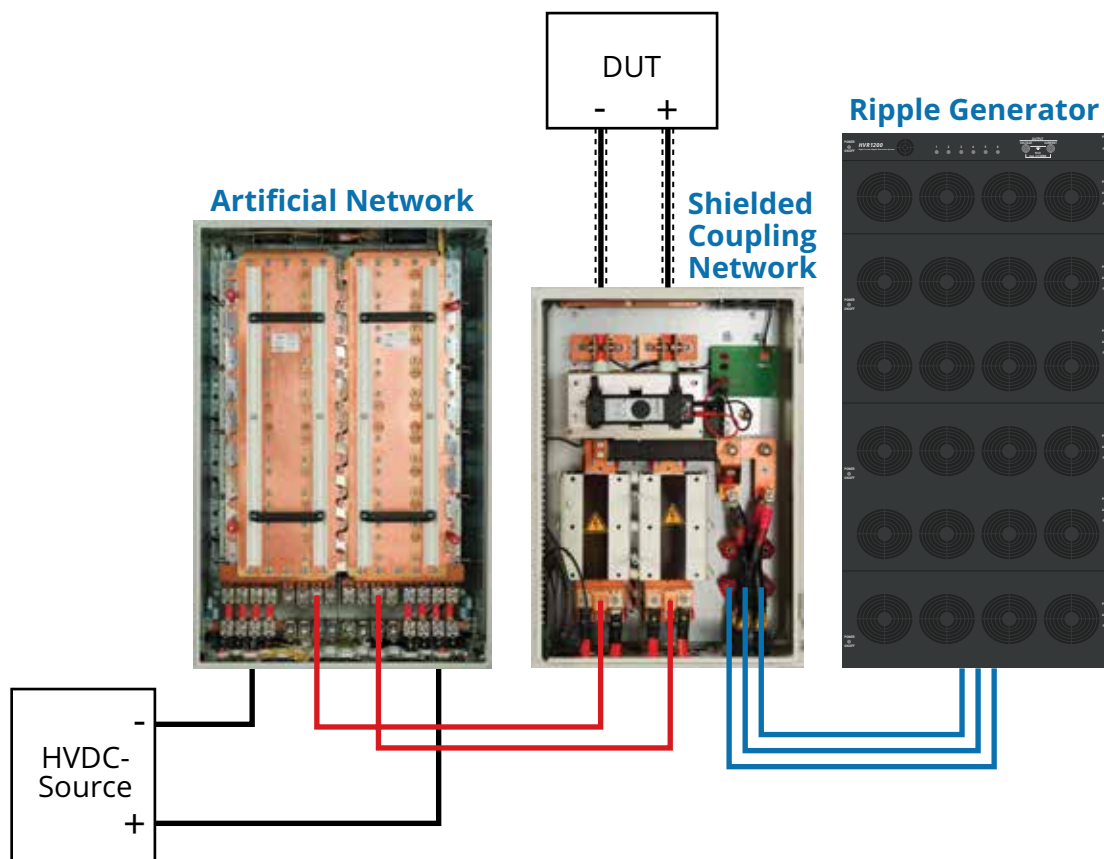
- Cabinet fans: 24 VDC, 1 A

LIQUID COOLING:

Operating Requirements:	MIN	MAX
• System pressure	2 Bar	4 Bar
• Inlet temp		50C
• Flow rate	30 L/min	60 L/min
• Facility Piping	G1" Dia.	

Protections:

- Inlet pressure switch: > 2 Bar
- Outlet pressure switch: >1.5 Bar
- Fluid temp warning: <85 C
- Self-venting with automatic valve



AE Techron's HVR 1200RG is an all-in-one solution for testing generated voltage ripple + immunity to voltage ripple (ISO21498-2 / 6.5 and 6.6)