



High Voltage On-board System Emulator LISN500

Emulation of the on-board electrical system impedance



Main features

- The resistance values can be changed by jumpers between $2x 25 \,\text{m}\Omega$, $2x 50 \,\text{m}\Omega$, $2x 75 \,\text{m}\Omega$ und $2x 100 \,\text{m}\Omega$.
- Decoupling capacitor at the DC input
- Water cooling
- Active discharge of the decoupling capacitor, controlled by the test bench via CAN or emergency stop
- · Measurement of internal heat sink and water temperatures with limit value monitoring
- Display for showing status messages and the measured temperatures
- Galvanically isolated CAN interface for reading out temperatures, error messages and controlling the discharge

Dr.-Ing. S. Haußmann Industrieelektronik Beutwang 4 · 72622 Nürtingen

Tel.: +49 (0)7022/9565-0 · Fax: +49 (0)7022/9565-501

info@sh-el.de · www.sh-el.de

Technical data:

Maximum DC current:	500 A max. 15 Min
Continuous current:	max. 300 Aeff
DC voltage:	max. 1000 V
Superimposed AC voltage:	max. 100 Vpp
Impedance:	$2x$ Ri + Lv + Cy Ri adjustable via jumpers: $25/50/75/100\text{m}\Omega$ Lv = $1\mu\text{H}$ Cy = $1\mu\text{F}$ Decoupling-C: 11mF
Stray inductance:	< 200 nH
Ambient temperature:	5 – 40 °C, non-condensing humidity
Auxiliary supply:	230 V (max. 500 VA)

Dimensions and cooling water connection:

Enclosure (WxDxH):	600x820x2200 mm incl. castors
Weight:	approx. 350 kg
Cooling water requirement:	Min. 30 I/min at 25 °C flow temperature; Water/glycol (25%)

Impedance characteristic:

