



## **Line Impedance Stabilization Network**

#### **Features**

Frequency range of 150 kHz to 30 MHz

100 Amp<sub>(AC)</sub> (forced air cooling)

Fully compliant with CISPR 16-1-2 / ANSI C63.4

"Air-core" inductors to prevent saturation

Individual Calibration Included

Three-Year Warranty

### Description

The LI-1100 Line Impedance Stabilization Network (LISN) provides the necessary measurement platform for performing power line conducted emissions compliance testing as required by most worldwide standards for commercial products. The LI-1100 is compliant with both CISPR 16-1-2 and ANSI C63.4.

The LISN provides defined stable impedance and isolates the EUT from power source influences, thereby providing accurate and repeatable results.

The LI-1100 includes one pair of, separately housed, single-conductor networks, to be installed in series with each current-carrying conductor in a singlephase, dual-phase or DC power system. A second LI-1100 pair can be used to accommodate 3-phase power systems (Wye or Delta configurations).

The LI-1100 is equipped with Superior Electric SUPERCON® shrouded sockets at the mains (power input) and EUT (power output) ports. The matching color-coded plugs for connection to the mains and EUT wiring are included.

This LISN uses air-core inductors to prevent saturation and permeability variation. mounting plate of the LI-1100 is left unpainted in order to facilitate connection to earth ground in its installation, which is essential due to high leakage current.

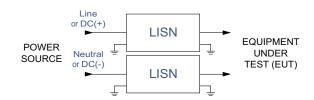


Use of a Transient Limiter for impedance matching, reduction of out-of-band emissions and transient protection for your measurement instrument is highly recommended and available from Com-Power.

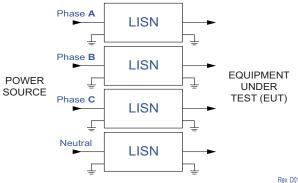
All Com-Power LISNs are individually calibrated in compliance with the relevant requirements of CISPR 16-1-2 and ANSI C63.4. Impedance, Phase, Isolation, and Insertion Loss data is supplied with each unit, along with the calibration certificate.

#### **Typical Connection Diagrams**

Single Phase connection with one set of LISN



Three Phase connection with two sets of LISNs





# Line Impedance Stabilization Network LI-1100

## **Application**

Product Name	Line Impedance Stabilization Network (LISN)
Specification	CISPR 16-1-2 / ANSI C63.4
Application	Power line conducted emissions tests
Frequency Range	150 kHz to 30 MHz
RF Connector	50Ω N-type (female)
Current Rating	100 Amperes <sub>(AC)</sub> , 70 Amperes <sub>(DC)</sub>
Voltage Rating	440 VAC (Line to Ground), 620 VDC
Inductors	50 μH (air-core)
Mains & EUT Connections	Superior Electric <b>SUPERCON</b> ® shrouded sockets
Dimensions (each network)	10 x 10 x 21 inches /25.4 x 25.4 x 53.3 cm
Weight (each network)	17 lbs. / 7.7 kg
Insertion Loss	< 0.5 dB (150 kHz to 30 MHz)
Isolation	> 40 dB (150 kHz to 30 MHz)
Fan Power Adapter	Input: 120 VAC 60Hz, Output: 12 VDC 1 Amperes

All specifications are subject to change without notice. All values are typical, unless specified.

