



Low-Impedance

Isolation Transformer

UL/cUL Listed

Models

ILc-600B

5 Amps
120 Volts

ILc-1000B

8.3 Amps
120 Volts

Isolation Transformer Line Conditioner

TSi Power's ILc Series Line Conditioners provide the best all-round power conditioning and surge protection for sensitive electronic equipment. The integral isolation transformer provides 100% isolation from the input AC line ~ the secondary neutral-to-ground bond eliminates all surge voltages between neutral and ground. Surge protection & noise filtering are superior to conventional surge protection & filtering devices.

Typical Applications

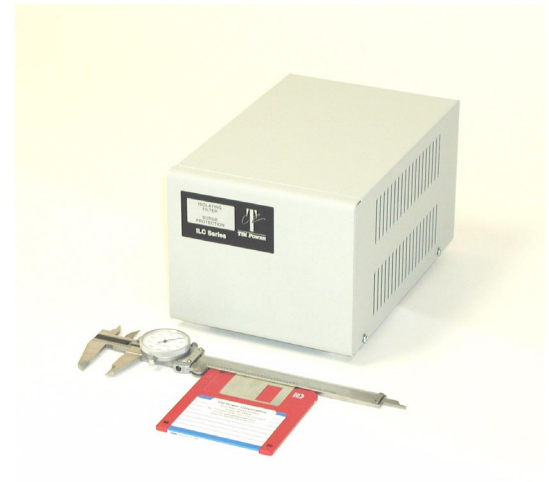
Designed for situations where reliability and predictability matter to the enterprise. Examples include: point-of-sale terminals, telecommunications equipment, file servers, routers, digital copiers, office machines, industrial controllers (PLC), automatic test equipment (ATE), laboratory analyzers and other sensitive, specialized microprocessor-based equipment.

Key Benefits

ILc Series conditioners reduce the need for a high quality ground and a dedicated line, while eliminating interference from adjacent sources of disturbances. ILc contributes to enhanced operation, improved repeatability, fewer reboots and system lock-ups and extended operating life. In addition, a reduction in equipment down time and service costs can be expected.

How ILc Conditioners Work

The integral isolation transformer provides complete isolation between the primary and secondary, and permits bonding its output neutral to ground, which completely eliminates all disturbances between neutral and ground, regardless of source. The series inductance of the isolation transformer in combination with a capacitive element and an MOV, provide superb noise filtering, as well as coordinated multi-stage surge protection in accordance with the principles of IEC 61312.3



Key Features Of The TSi Power Isolation Line Conditioner

- Coordinated Surge Protection Per IEC 61312.3
- Low-Impedance Isolation Transformer
- True Isolation
- Common-Mode Noise Elimination
- Advanced Noise & Interference Filter Reduces dV/dt from 6kV/μS to less than 10V/μS
- High Efficiency
- Four AC Outlets
- Low Weight
- Quiet Operation
- 5 Year Warranty



TSi Power Corporation
1103 West Pierce Avenue
Antigo, WI 54409
USA
715.623.0636
800.874.3160
Fax 715.623.2426
sales@tsipower.com
www.line-conditioner.com



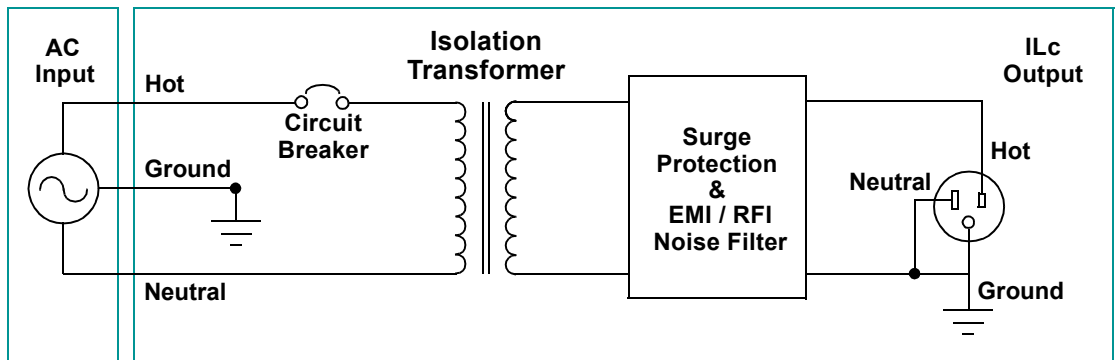
Low-Impedance Isolation Line Conditioner



Rear View
ILc-1000B

Specification	ILc-600B	ILc-1000B
Electrical		
Capacity in VA (Watts)	600VA (600W)	1000VA (1000W)
Transformer Type	Low-Impedance E-I Core Isolation Transformer	
Input		
Nominal Voltage	120 Volts AC single phase	
Operating Voltage	100 ~ 130 Volts AC	
Nominal Frequency	60 Hz +/-3	
Over-current Protection	User resettable circuit breaker	
Circuit Breaker Rating	5 Amps	10 Amps
AC Input Cord	6 Foot long AC power cord with NEMA 5-15P plug	
Output		
Nominal Voltage	120 Volts AC, single phase	
Power Efficiency	94% (typical)	
Total Harmonic Distortion	< 1%	
Surge Protection	A three-stage surge protection system consisting of isolation transformer, capacitor and M.O.V. is included.	
Surge Test Conditions	Per ANSI/IEEE C62.41-1991 test waveforms	
Surge Let-Through Voltages	Single Pulse: L-N: 50V, L-G: 50V, N-G: 0.5V Ring Wave: L-N: 20V, L-G: 20V, N-G: 0.5V Combination Wave: L-N: 250V, L-G: 250V, N-G: 0.5V The measured rate of voltage rise/fall (dV/dt of the remnant waveform is less than 10V/μS with input test waveform dV/dt of 6kV/μS	
AC Output Receptacles	4 (NEMA 5-15R.)	
Physical		
Dimensions	6" (152mm) Wide x 5.0" (127mm) High x 9" (229mm) Deep	
Weight	25 lbs. (11.3kgs.)	33 lbs. (15kgs.)
Safety		
Agency Approvals	UL and cUL Listed	
Environmental		
Ambient Temperature	0° to +40°C. 10 to 90% Relative Humidity (non-condensing).	
Warranty		
Warranty	5 Year Limited Warranty, Parts & Labor.	

TSi's ongoing product improvement process makes specifications subject to change. Other companies product names herein are for identification purposes only, and may be trademarks of their respective companies.



ILc System Architecture



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