



Low-impedance

Isolation transformer

UL/cUL listed

**ILc model**

**600B**

5 amperes  
600 VA  
600 watts  
120 volts

**1000B**

8.3 amperes  
1000 VA  
1000 watts  
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 and noise filtering are superior to conventional surge protection and 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 and interference filter reduces dV/dt from 6kV/μs to less than 10V/μs
- High efficiency
- Four ac outlets
- Low weight
- Quiet operation
- Five year warranty



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Isolation  
line conditioner

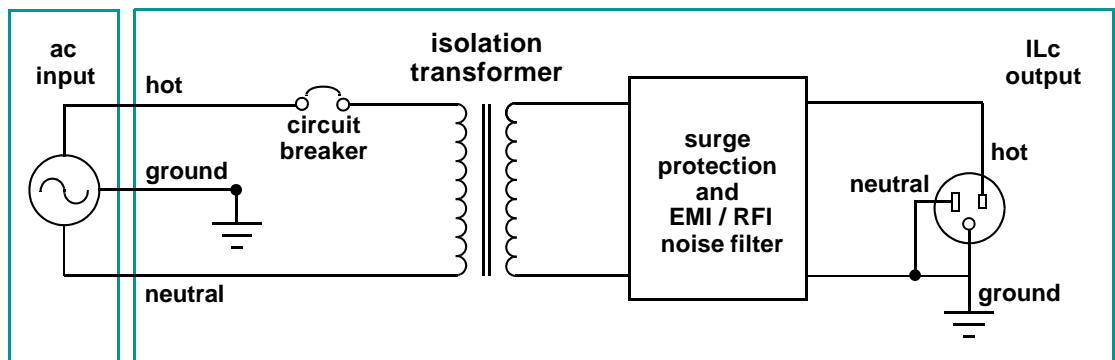


rear view ILc-1000B  
shown without  
6' line cord/plug

Specification	ILc-600B	ILc-1000B
<b>Electrical</b>		
Capacity in VA (Watts)	600VA (600W)	1000VA (1000W)
Transformer type	Low-impedance E-I core isolation transformer	
<b>Input</b>		
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 amperes	10 amperes
Ac input cord	6 foot long ac power cord with NEMA 5-15P plug	
<b>Output</b>		
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	Four (NEMA 5-15R.)	
<b>Physical</b>		
Dimensions	152mm (6") wide x 127mm (5") high x 229mm (9") deep	
Weight	11.3kg (25 lbs)	15kg (33 lbs)
<b>Safety</b>		
Agency approvals	UL and cUL listed	
<b>Environmental</b>		
Ambient temperature	0° to 40°C (32° to 104°F). 10 to 90% relative humidity (non-condensing).	
<b>Warranty</b>		
Warranty	Five year limited warranty, parts and 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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