



Low-impedance

isolation transformer

UL/cUL listed

**ILc model**

**1800**

15 amperes  
1800 VA  
1800 watts  
120 volts

**2000**

16 amperes  
2000 VA  
2000 watts  
120 volts

# Isolation transformer line conditioner

TSi Power's ILc Series line conditioner provides 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, tele-communications 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 IEC61312.3
- 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
- Six ac outlets
- On/off rocker switch
- Low weight
- Quiet operation
- Five year warranty



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Isolation  
line  
conditioner

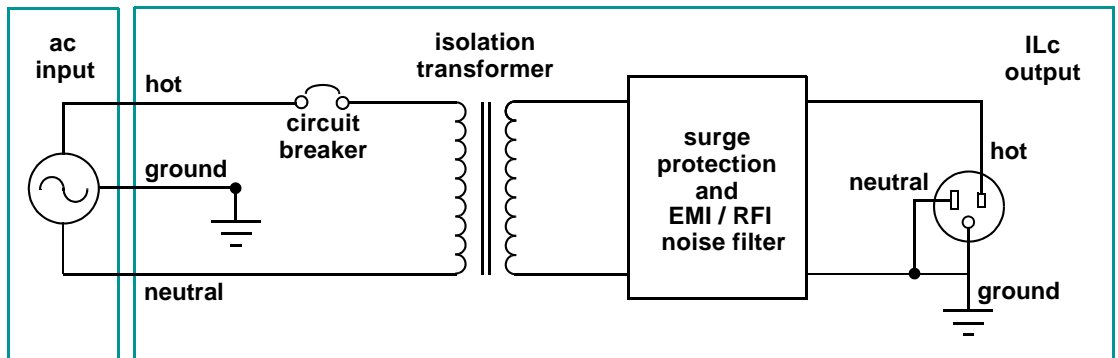


Rear view  
ILc-1800

Specification	ILc-1800	ILc-2000
<b>Electrical</b>		
Capacity in VA (watts)	1800VA (1800W)	2000VA (2000W)
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	60Hz +/-3	
Over-current protection	User resettable circuit breaker built-in	
Circuit breaker rating	15 amperes	20 amperes
Ac input cord	6 foot cord with 5-15P plug	6 foot cord with 5-20P plug
<b>Output</b>		
Nominal voltage	120 volts ac, single phase	
Power efficiency	95 to 97% (typical)	
Total harmonic distortion	< 1%	
Surge protection	A three-stage surge protection system consisting of isolation transformer, capacitor and MOV is included.	
Surge test conditions	Per ANSI/IEEE C62.41-1991 test waveforms	
Surge let-through voltages	Single pulse: L-N: 50 V, 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.	
Indicators	Green LED indicates ac power is present	
On/off switch	On/off rocker style switch	
Ac Receptacles	Six NEMA 5-15R	Six NEMA 5-20R
<b>Physical</b>		
Dimensions	216mm (8.5") wide x 165mm (6.5") high x 279mm (11.0") deep	
Weight	22.7 kg (50 lbs)	22.7 kg (50 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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