



Low-Impedance

Isolation Transformer

3 Stage Protection

**Models**

**ILc-2400**

10 Amps  
208/220,  
230/240 Volts

**ILc-3600**

15 Amps  
208/220,  
230/240 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, 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 Multi-Stage Surge Suppression
- Low-Impedance Isolation Transformer
- True Isolation
- Common-Mode Noise Elimination
- Advanced Noise & Interference Filter Reduces dV/dt from 6kV/ $\mu$ S to less than 10V/ $\mu$ S
- High Efficiency
- On/Off Rocker Style Power Switch
- 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



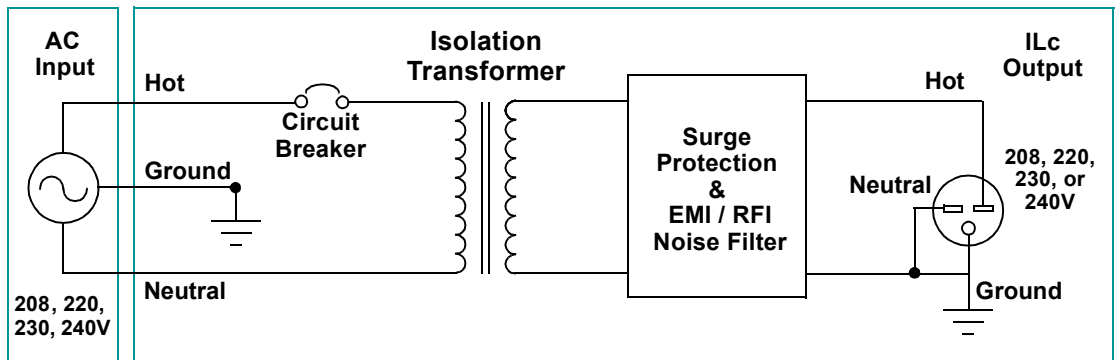
# Low-Impedance Isolation Line Conditioner



Rear View  
With Optional  
Receptacles

Specification	ILc-2400	ILc-3600
<b>Electrical</b>		
Capacity in VA (Watts)	2400VA (2400W))	3600VA (3600W)
Transformer Type	Low-Impedance E-I Core Isolation Transformer	
<b>Input</b>		
Nominal Voltage	208/220/230 or 240Volts AC single phase	
Operating Voltage	190 ~ 250 Volts AC	
Nominal Frequency	60Hz +/-3	
Circuit Breaker Rating	15Amps	20Amps
AC Input	Hardwire (terminal block connector)	
<b>Output</b>		
Nominal Voltage	208/220/230 or 240Volts AC, single phase	
Power Efficiency	97% (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	
Power On/Off Indicators	On/Off Rocker Style Power Switch/Circuit Breaker Green LED indicates AC power is present	
AC Output	Hardwired output terminals (L1, Neutral, and Ground) are standard. Optional AC receptacles are available.	
<b>Physical</b>		
Dimensions	10" (254mm)Wide x 7.5" (190mm)High x 14.5" (368mm)Deep	
Weight	60 lbs (27.3kg)	80 lbs (36.3 kg)
<b>Safety</b>		
Agency Approvals	Designed to meet UL, cUL Standards	
Over-current Protection	User resettable circuit breaker	
<b>Environmental</b>		
Ambient Temperature	0° to +40°C. 10 to 90% Relative Humidity (non-condensing).	
<b>Warranty</b>		
Warranty	5 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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