



Low-impedance | isolation transformer | 3 stage protection

ILc model
2400
20 amperes 2400 VA 2400 watts 120 volts
3600
30 amperes 3600 VA 3600 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/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 ILc 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 and interference filter reduces dV/dt from 6kV/μs to less than 10V/μs
- High efficiency
- On/off rocker style power switch
- Low weight
- Quiet operation
- Five year warranty



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Isolation
line
conditioner

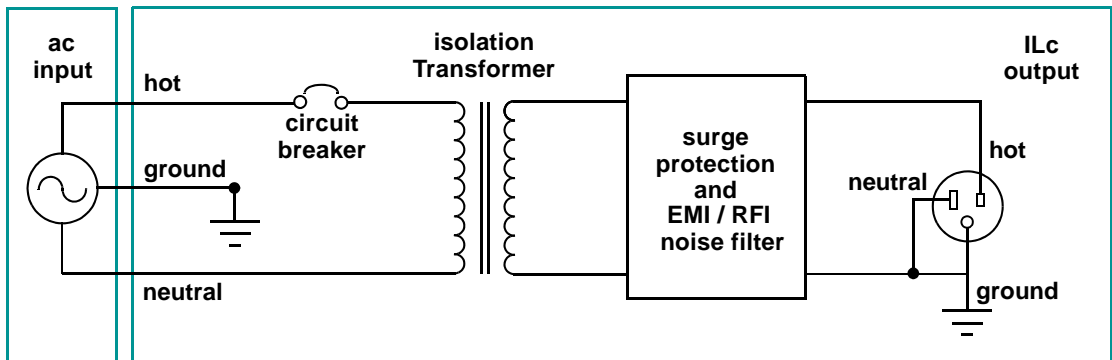


Rear view

Specification	ILc-2400	ILc-3600
Electrical		
Capacity in VA (watts)	2400VA (2400W)	3600VA (3600W)
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	
Circuit breaker rating	20 amperes	30 amperes
6 foot ac input cord with	NEMA 5-30 plug	(Specify)
Output		
Nominal voltage	120 volts 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	On/off rocker style power switch/circuit breaker	
Indicators	Green LED indicates ac power is present	
Ac output receptacles (Other options available)	Four NEMA 5-20R and four NEMA 5-15R	Four NEMA 5-20R and four NEMA 5-15R
Physical		
Dimensions	254mm(10") wide x 190mm(7.5") high x 368mm(14.5") deep	
Weight	27.3 kg (60 lbs)	36.3 kg (80 lbs)
Safety		
Over-current protection	User resettable circuit breaker.	
Environmental		
Ambient temperature	0° to 40°C (32° to 104°F). 10 to 90% relative humidity (non-condensing).	
Warranty		
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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