



Low-impedance | Isolation transformer | 3 stage protection

ILc model
4400-230V
19 amperes 4400 VA 4400 watts 208/220, 230/240 volts
5500-230V
24 amperes 5500 VA 5500 watts 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 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, 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 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 transformer line conditioner

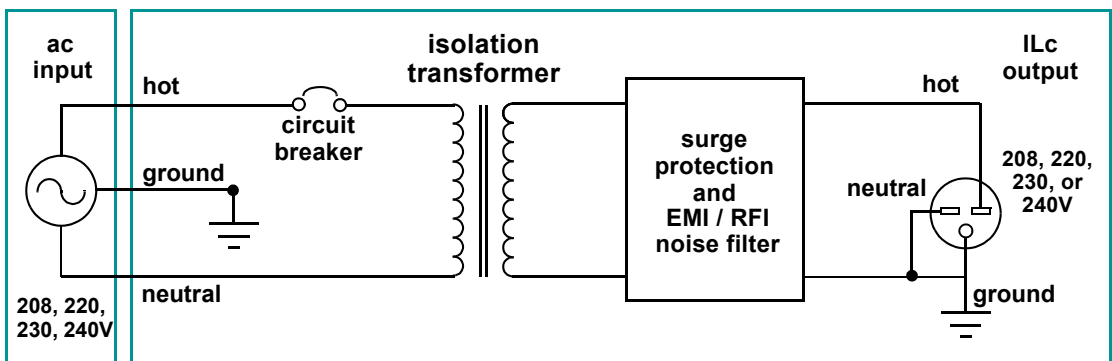


Rear view with optional receptacles

Specification	ILc-4400	ILc-5500
Electrical		
Capacity in VA (watts)	4400VA (2400W)	5500VA (5500W)
Transformer type	Low-impedance E-I core isolation transformer	
Input		
Nominal voltage	208/220/230 or 240 volts ac, single phase	
Operating voltage	190 to 250 volts ac	
Nominal frequency	60 Hz +/-3	
Circuit breaker rating	25 amperes	30 amperes
Ac input	Hardwire (terminal block connector)	
Output		
Nominal voltage	208/220/230 or 240 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 MOV 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	Hardwired output terminals (L1, neutral, and ground) are standard. Optional ac receptacles are available.	
Physical		
Dimensions	254mm(10")wide x 190mm(7.5")high x 368mm(14.5")deep	
Weight	43.56 kg (100 lbs)	54.6 kg (120 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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