



Low-Impedance

Isolation Transformer

3 Stage Protection

Models

ILc-24000

24 Amps
120/208V
3 Phase Wye

ILc-36000

36 Amps
120/208V
3 Phase Wye

Three Phase Low-Impedance 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: sensitive industrial and telecommunications equipment, file servers, industrial controllers (PLC), automatic test equipment (ATE), 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.

TSi's use of one transformer per phase minimizes single phasing or lost phase problems associated with single unit three phase transformers.

How ILc Conditioners Work

The integral isolation transformers provide 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 capacitive elements and MOV's, 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 ~ One Per Phase
- True Isolation
- Common-Mode Noise Elimination
- Advanced Noise & Interference Filter Reduces dV/dt from 6kV/μS to less than 10V/μS
- High Efficiency
- 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

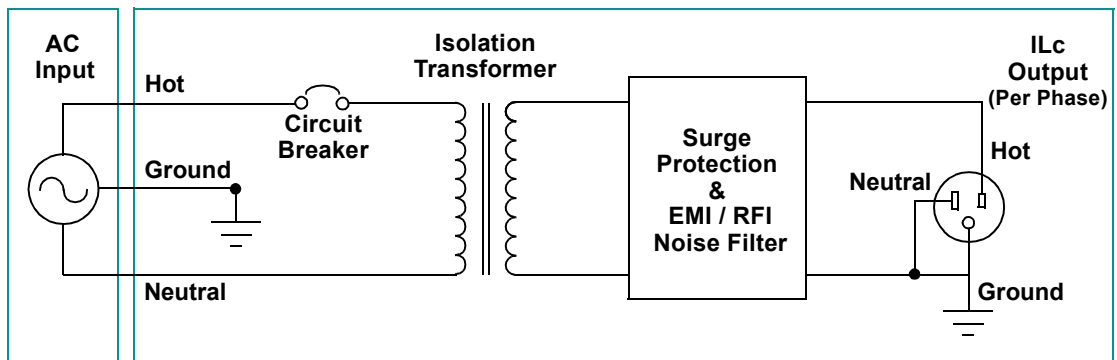


Low-Impedance Isolation Line Conditioner



| Specification | ILc-24000 | ILc-36000 |
|----------------------------|---|---------------------------------|
| Electrical | | |
| Capacity in VA (Watts) | 24 kVA (24000W)) | 36 kVA (36000W) |
| Transformer Type | Low-Impedance E-I Core Isolation Transformer (1 Per Phase) | |
| Input | | |
| Nominal Voltage | 120/208 Volts AC Three Phase Wye | |
| Operating Voltage | Nominal Voltage +/- 10% | |
| Nominal Frequency | 60 Hz +/- 3 | |
| Circuit Breaker Rating | 3 pole input breakers: 3 x 70A | 3 pole input breakers: 3 x 100A |
| AC Connections | Terminal block (L1, L2, L3, Neutral & Ground wires) provided. | |
| Output | | |
| Nominal Voltage | 120/208 Volts AC Three Phase Wye | |
| Power Efficiency | 95% (typical) | |
| Load Regulation | Better than +/- 2% | |
| Load Power Factor | Tightly coupled isolation transformer windings provide compatibility with switchmode power supplies and SCR controlled devices; it is compatible with loads with very low true power factor of 0.5. | |
| Surge Test Conditions | Per ANSI/IEEE C62.41-1991 test waveforms | |
| 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 | |
| Common Mode Filtering | Neutral-ground bond eliminates all noise or voltage on neutral (< 0.1V) | |
| Normal Mode Filtering | A built-in inductor-capacitor filter attenuates EMI/RFI noise from output. | |
| AC Connections | Terminal block (L1, L2, L3, Neutral & Ground wires) provided. | |
| Physical | | |
| Dimensions | 24" (610mm) Wide x 28" (710mm) High x 22" (560mm) Deep | |
| Weight | 540 lbs (245kg) | 650 lbs (295kg) |
| Safety | | |
| Agency Approvals | Designed to meet UL/cUL and IEC Standards | |
| Environmental | | |
| Ambient Temperature | 0° to +40°C. 10 to 90% Relative Humidity (non-condensing). | |
| Warranty | | |
| 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 (Per Phase)



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