



Hospital-Grade

Isolation Transformer

UL/cUL 2601

Models

ILc-1000Med4

8.3 Amps
 120 Volts

ILc-1400Med4

11.7 Amps
 120 Volts

Hospital Grade UL/cUL 2601 Medical Isolation Transformer

TSi Power's ILc-Med Line Conditioners provide the best all-round hospital-grade 'low-leakage current' line conditioning and surge protection for sensitive medical equipment. The integral isolation transformer provides 100% isolation from the input AC line ~ the secondary neutral-ground bond eliminates all surge voltages between neutral and ground. Surge protection and noise filtering are superior to conventional surge protection and filtering devices.

Key ILc-Med Benefits

TSi Power's Hospital- Grade Line Conditioner reduces the need for a high quality "isolated and dedicated" line, while eliminating interference from adjacent sources of disturbances. ILc-Med contributes to enhanced systems operation, greater reliability, improved repeatability, fewer reboots and system lock-ups and extended operating life. Reductions in hospital equipment down time & service costs can be expected.

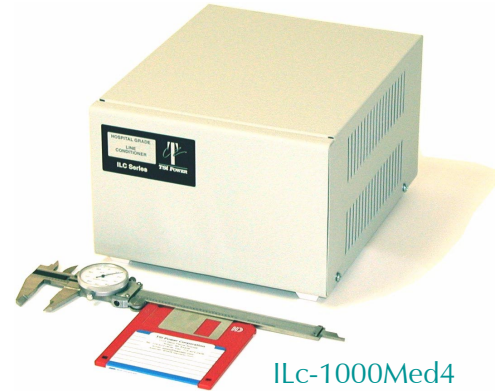
How ILc-Med Conditioners Work

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.

In addition, ILc-Med has an extremely low input AC leakage current (typical 50µA) rating which exceeds both domestic US (UL 2601), Canadian (cUL 2601) and international (IEC 601) medical standards for a leakage current limit of 300µA maximum for non-patient connected medical equipment & instruments.

Typical ILc-Med Applications

These are designed for medical systems requiring line conditioners having UL 2601 or Canadian cUL 2601 agency approval. Examples include: imaging systems, analyzers, patient care/monitoring equipment, audio systems & other patient-critical applications.



ILc-1000Med4

Key Features of the TSi Power Medical Isolation Transformer

- Typical Leakage Current <50µA
- UL and cUL 2601 Listed
- Low-Impedance Isolation Transformer
- Coordinated Surge Protection Per IEC61312.3
- Filtering and MOV's
- Resettable Circuit Breaker
- Eight "Green Dot" Medical Grade Outlets/Receptacles
- High Efficiency
- 100% Common Mode Noise Elimination
- True Isolation
- Quiet Operation
- 5 Year Warranty



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ILC-Med

Medical Isolation Transformer



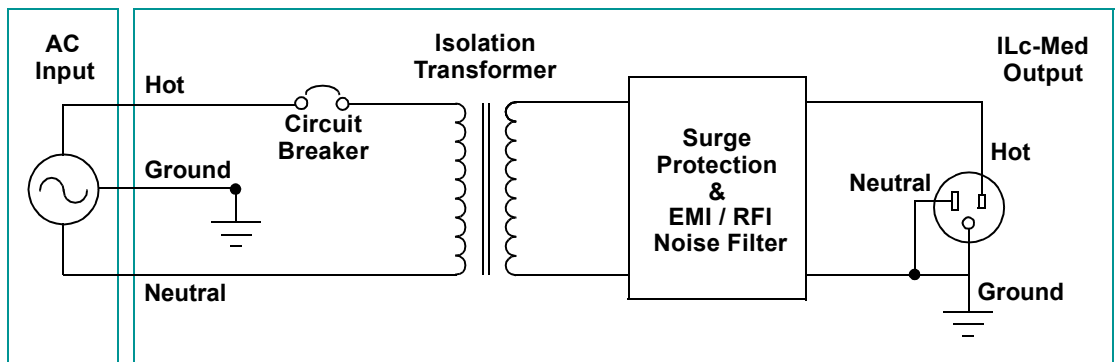
Rear View
ILC-1000Med4



Rear View
ILC-1400Med4

Specification	ILC-1000Med4	ILC-1400Med4
Electrical		
Capacity in VA (Watts)	1000VA (1000W)	1400VA (1400W)
Transformer Type	Hospital-Grade Low-Leakage E-I Core Isolation Transformer	
Input		
Nominal Voltage	120 Volts AC single phase	
Operating Voltage	100 ~ 130 Volts AC	
Nominal Frequency	60Hz +/-5%	
Leakage Current	50µA Typical (300µA Maximum)	
Over-current Protection	User resettable circuit breaker	
Circuit Breaker Rating	10 Amps	15 Amps
AC Input Cord	15 Foot long hospital-grade AC power cord with NEMA 5-15P plug	
Output		
Nominal Voltage	120 Volts AC, single phase	
Power Efficiency	94 to 96%	
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: 50 V, L-G: 50V, N-G: 0.5 V 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)	
AC Output Receptacles	8 Hospital-Grade "Green Dot" NEMA 5-15R Receptacles	
Physical		
Dimensions	7.5" W x 5.25" H x 9.0" D (190 x 133 x 229mm)	8.5" W x 6.5" H x 9.0" D (216 x 165 x 229mm)
Weight	29 lbs (13.2kg)	49 lbs (22.3kg)
Safety		
Agency Approvals	UL2601 & cUL2601 Listed. UL Control Number 85EF.	
Environmental		
Ambient Temperature	0° to +40°C. 10 to 90% Relative Humidity (non-condensing).	
Warranty		
Warranty	5 Year Limited Warranty, Parts & 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-Med System Architecture



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