

Hospital grade | Medical isolation transformer | IEC 60601 - 1, 3rd Edition

# ILC

**ILC Model**

240-MED-4

240 W / VA

120 V, 60 Hz

2 A

## Medical line conditioners

Tsi Power's ILC MED series of hospital-grade isolation transformers are tested and listed to UL 60601-1, 3rd Edition. ILC-MED units are designed specifically for North American power distribution systems and are only available in 120 V, 60 Hz versions. They comply with the National Electrical Code provisions for safety of separately derived systems unlike dual voltage 120/230 V units that compromise performance due to the conflicting requirements of 230 V, 50 Hz power systems. The ILC-MED products meet all requirements for leakage current as stipulated by UL 60601-1 3rd Edition. In addition, ILC-MED provides coordinated surge protection and filtering of fast-rise-time voltages. Unlike dual voltage units, ILC-MED has an optional neutral-to-ground bond to provide a path for fault current from a connected load .



on the input. A two-pole filter and a metal oxide varistor provide coordinated surge protection which eliminates the need for additional surge protection. The isolation transformer reduces leakage current to levels below <math>100 \mu A</math> for Normal Condition.

### How ILC-MED works

ILC-MED consists of a low-inrush current EI transformer that does not require current limiting thermistors

### Features and Benefits

- Designed to North American standards. No compromises necessary to also accommodate European standards that conflict with the National Electric Code.
- Meets or exceeds 100  $\mu A$  leakage current requirement for patient safety.
- Secondary neutral-to-ground bond provides path for fault current of connected equipment. No need to add GFCI circuit. Compliance with NEC.
- No embedded thermal devices in transformer. Less risk of failure.
- Thermal circuit breakers rather than inlets with fuses. No need to worry about replacing fuses.
- Designed for 120 V, 60 Hz only. No confusing setting input and output voltages.
- Low-inrush current EI transformer limits inrush current without the use of unreliable thermistors. Less risk of tripping upstream circuit breakers during power cycling.
- Coordinated surge protection and filtering eliminates need for inferior, external surge protectors. Improved system reliability decreases service calls.
- Four outlets are standard. Provides maximum flexibility.
- NEMA or IEC outlets are available. Fits all standard receptacles and plugs.

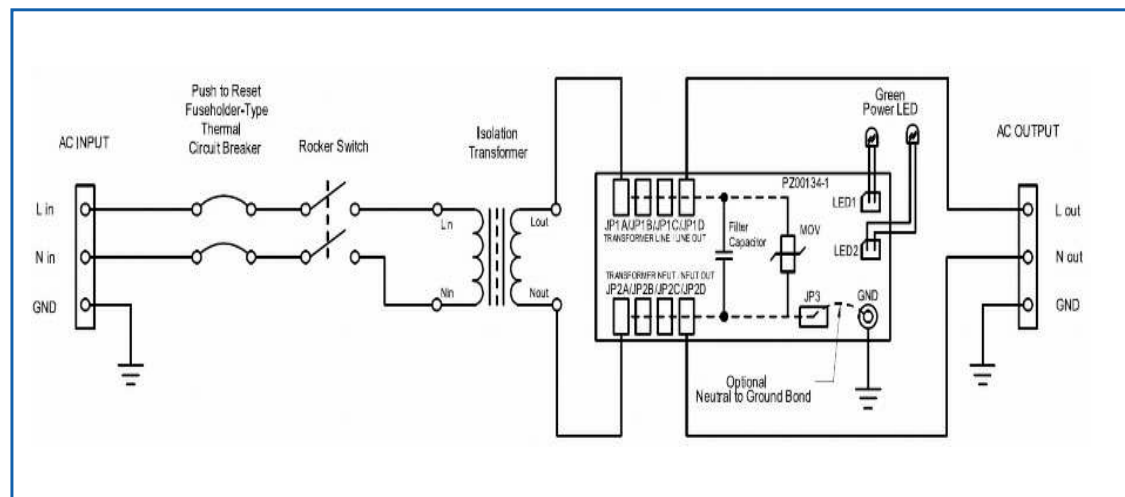


1103 W Pierce Avenue  
 Antigo, WI 54409 USA  
 Tel: +1-715-623-0636  
 Fax: +1-715-623-2426  
 Toll-Free: 1-800-874-3160  
 email: sales@tsipower.com  
 Web: www.tsipower.com

Specification	ILC-240-MED-4
<b>Input</b>	
Nominal voltage & frequency	120 V, 60 Hz
Operating voltage	120 V
Max current	3 A
6 ft. 5-15 hospital grade cord set	Standard
IEC C14 inlet	Option C
Circuit breaker, thermal push-to-reset type	250 V, 3A
Surge voltage test condition	ANSI/IEEE: 6 kV, 1.2 x 50 μs / 3 kA, 8 x 20 μs
Surge voltage let-through	L-N: <450 V L-G: <10 V N-G: <10 V
<b>Output</b>	
Output power	240 W / VA
Nominal voltage	120 V
Max current	2 A
Power efficiency	94 to 96%
Four 5-15 R outlets	Standard
Four IEC C13 outlets	Option C
<b>Indicators and alarms</b>	
Status indicators	Green LEDs front and back indicate unit is operational
<b>Physical</b>	
Dimensions	Height: 4.55" / 115.6 mm Length: 8" / 203.2 mm Width: 6" / 152.4 mm
Enclosure	Two-piece powder coated steel
Weight lbs / kg	11 lbs / 5 kg
Mounting	To be placed on floor or flat surface
<b>Environmental</b>	
Ambient temperature	32° to +104° F / 0° to +40° C
Cooling method	Convection cooling
Humidity	95% non-condensing
<b>Safety</b>	
Leakage current	< 100 μA
Standards	Power supply for use in health care facilities. Conforms to AAMI ES 60601-1. Certified to CSA C22.2 NO. 60601-1. Intertek/ETL Report No: 101470838MIN-002 original issued 17-Jul-2014.
<b>Warranty</b>	
Warranty	Five-year limited warranty, parts and labor

TSI Power'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-240-MED-4 system architecture



1103 W Pierce Avenue  
Antigo, WI 54409 USA  
Tel: +1-715-623-0636  
Fax: +1-715-623-2426  
Toll-Free: 1-800-874-3160  
email: sales@tsipower.com  
Web: www.tsipower.com