

Power line conditioners (PLCs) are used in energy distribution to insure smooth flow of current over voltage transmission lines and to reduce energy losses from sporadic changes in current flow. Normally, power line conditioners are utilizing automatic voltage correction, conditioning and filtering to produce clean sinewave output that is best for proper functioning of all computers, automated machineries, internet, network, intranet communication and sound systems, and so on.

Why Isolated Reactor Power Line Conditioner?

The conventional Automatic Voltage Regulators (or Tap-Voltage-Changer Power Line Conditioners) utilizing non-isolated single-winding transformers have very limited spike and surge suppression as the loads are connected directly to them. They are cheaper, but have insufficient capability to provide a secure and clean power supply.

MicroMate® Isolated Reactor Power Line Conditioners with grounded centre-tap balanced power output utilising double inductors enhanced with isolated double-winding transformer have an inherent characteristic of excellent immunity to transients and radio frequency interference. With the reactive characteristic of input and output which allows for dual stage interference filtering and spike suppression, the reactor power line conditioners can provide many benefits as follows:

- Extremely High Impedance Characteristic from Power Line Pollutior
- Superior Voltage Tracking and Correction Ability
- Elimination of Ground Loop Interference and Distortion
- High speed Power Line Spike Suppression with response of 1 pico-second
- Attenuation of Differential and Common Mode Interference
- Attenuation of Harmonic Interference

TECHNICAL SPECIFICATIONS

Model	LCR700i	LCR1000i	LCR1500i	LCR2000i	LCR3000i	LCR5000i
Power Rating	700VA	1KVA	1.5KVA	2.0KVA	3.0KVA	5.0KVA
Configuration	LC Filtering Circuit with Double Reactive Chokes and Isolation Transformer					
Input Voltage	AC 240V (nominal), 1-phase					
Output Voltage	AC 240V (nominal), 1-phase					
Operating Frequency	50Hz					
Total Harmonic Distortion	Approx. 0%					
Efficiency	> 95 %					
Input Connection	Power Cord 1.5m with 13A BS1363 Plug-top					Terminal Blocks
Outlet Connection	Two BS1363 Switched Power Sockets or Terminal Blocks					
Protection	Surge Energy Rating: 4.8KJ @10/1000us Surge Current Rating: 3-pole 10KA @ 8/20us, 20KA @1.2/50us EMI/RFI Noise Suppression, 100KHz to 10Mhz Capability to withstand transient up to 6KV as defined by IEEE C62.41 for Category A3 Overload Protection					
Ambient & Humidity	Maximum 45 °C Ambient Temperature, 90% non-Condensing					
Equipment Weight (Approx.)	7.8KG	10.8KG	16.8KG	19KG	25KG	35KG
Dimensions WxHxD (mm ³)	170 x 110 x 190	190 x 160 x 385		170 x 210 x 470		210 x 230 x 585

MicroMate®

Isolated Reactor Power Line Conditioners

with grounded centre-tap balanced power output



* Due to the policy of continued product improvement, specifications are subject to change without notice.



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LCR700i



LCR1000i / LCR1500i



LCR2000i / LCR3000i



LCR5000i