



# MIRACLE<sup>®</sup>

Let's make it **better.**



Transformational Excellence  
Transformers for Medical Equipments



# Miracle Medical Grade Isolation Transformer

## Least Noise and Minimal EMR

When you have lives to save, the best you can rely on is the best. We understand the need for you to be precise, and error free. We understand the complexity and criticality of your decisions. We understand your Industry. We understand you.

Miracle specializes in offering critical Electro-Mechanical components for the Medical Devices industry. One such offering is our International Standard Box Series **Medical Grade Isolation Transformers**. Our Transformers offer least noise and minimal Electro-Magnetic Radiation, assuring the best performance from your equipment, ever.

Our Transformers are of Toroidal type and offer multiple advantages over conventional transformers. Despite of being of a smaller size, our transformers offer higher efficiency, lower noise and minimal EMR which in turn enhance the desired performance levels of the equipment.

Miracle Isolation Transformers offer reinforced safety when using in electronic devices specifically in Electro Medical Equipments. Our safety standards are well within the recommended standards and adhere to the compliance guidelines as stipulated by National Electrical Code and as per Underwriters Laboratories safety standards.

Miracle Isolation Transformers are available in different models in aesthetic enclosures suitable for floor mountable type.

**We have models available for both International Standard at 115 V or 230 V/60 Hz and for Domestic Usage at 230/50 Hz.**

Miracle adheres to the following regulations under UL 60601-1 standard:

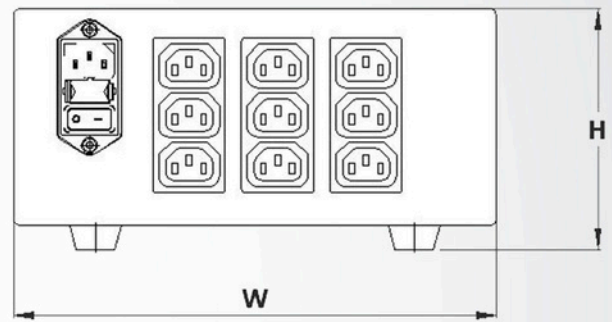
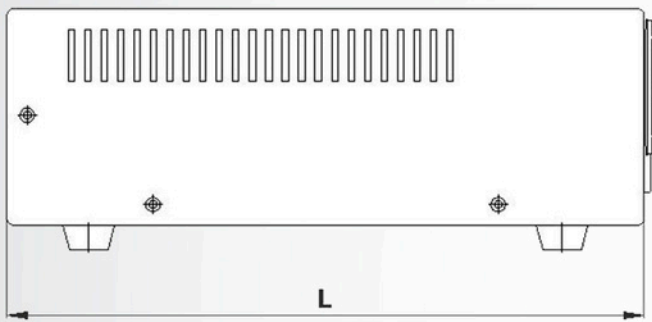
- Minimum Enclosure Leakage Current
- Maximum High Voltage Test between Windings
- Excellent Creepage Distance
- Excellent Air Clearance
- Minimum Temperature Rise at Load
- Limited Maximum Earth Leakage Current

Miracle offers a wide range of Transformers either in stand-alone units or for assembly as per your unique needs. Our Transformers are custom configured and we specialize in providing end-to-end customization service including Circuitry Design, Cable Assemblies & Enclosures as per your specific requirement.

# Miracle Medical Grade Isolation Transformer

## Specifications

General Specifications	MIT-300	MIT-600	MIT-1000	MIT-1500	MIT-2000
VA	300 VA	600 VA	1000 VA	1500 VA	2000 VA
Thermal Circuit Breaker	Yes				
Input with Fuse Safety	Yes				
IEC 60320 Outlets	3 way	6 way	9 way	9 way	9 way
Inrush Current Limiting	Yes				
Weight in Kilograms	5.75	7.93	10.49	14.13	16.2
Dimension (in mm)	310 (L) x 235 (W) x 115 (H)		310 (L) x 235 (W) x 130 (H)		



Electrical Specifications	MIT-300	MIT-600	MIT-1000	MIT-1500	MIT-2000
Input Rating	220/230 V@50/60 Hz (Optional : 115/120 V@ 60 Hz)				
Output Rating	220/230 V@50/60 Hz (Optional : 115/120 V@ 60 Hz ) *				
Regulation	< 6%				
Temperature Rise	< 40° C				
Leakage Current	<100 $\mu$ A				
Input Filter Leakage Current	Medical < 5 $\mu$ A (250 V / 60 Hz)				
Input Switch	Yes				
IEC Inlet Fuse for Each Line	Yes				
Medical Filter on Input Side	Yes				
Line Filter Standard	Line Filter Standard Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8				

The enclosures are made of sturdy Aluminum with white finish (Protection: IP20).  
All Fasteners are made of Stainless Steel

\* Note: On all the models, the secondary neutral conductor is NOT grounded.

### About Miracle

Miracle Electronics was born in the year 1994 with a dream of setting up a world class manufacturing facility-producing state of art transformer and inductors to customers across the globe. The beginning was small and challenging. Miracle, in its early days dealt with Toroidal and laminated transformers with a limited manpower of 15 individuals who were adept at multitasking. In the last 20 years, we have grown by leaps and bounds, all thanks to our esteemed customers, and today we serve over 20 countries across the globe.

The team of 15 has grown to an enviable force of 250, the product gamut now encompasses all the categories in Transformer, inductor, filter and alike segments, but the vision has remained unchanged. We are today, one of the market leaders in the segment we operate and have an unarguable commitment to quality and innovation.

Today, we boast of one of Asia's most comprehensive standard ranges on Toroidal / laminated transformers, wire harness, box building, SMPS and power-supplies. The gamut spans small wound Toroidal / laminated transformers to large three-phase auto power transformers and energy saving transformers.

For more than a decade and half, our research, expertise and forethought have resulted in market-leading innovations that have shaped and defined the transformer industry. Our history of product excellence and committed customer service has assisted us in evolving into a global company serving businesses around the world.



"The Product fulfils the requirements of IEC 60601-1:2005 (Third Edition)+ CORR.1:2006+CORR.2:2007+A1:2012

## Miracle Electronic Devices Pvt. Ltd.

Transformers | Wire Harness | Box Integration

Head Office & Export Unit:

48/1, Korihobavanahalli, Thigalarapalya Main Road,  
Peenya 2nd Stage, Bangalore 560058, India

## Let's Makes it better!

Tel: +91-80-28362750 | Fax: +91-80-28362752  
sales@miracle.net.in | www.miracle.net.in