

**HAMMOND
MANUFACTURING®**
MEDICAL LINE ISOLATION



Series 178, 240, 289, 298 “MG”
Medical Grade Isolation Transformer
USER GUIDE

Medical Grade (MG) Isolation Series

Attention - - Consult Accompanying Documents

Safety Instructions and Warnings



Your Hammond MG Series isolation transformer is Underwriters Laboratories listed to UL60601-1 and evaluated to CSA CAN/CSA-C22.2 No. 601.1-M90 (R2005) as a low leakage power supply.

These devices are intended for NON-patient connected indoor applications protecting sensitive electronic equipment. These are not intended to be used to supply power to life support appliances. Units feature hospital grade plugs and receptacles and must be connected to comparable hospital grade plugs and receptacles in order to maintain electrical and mechanical grounding. The MG Series isolation transformer provides noise filtering plus utilizes a Faraday shield to reduce leakage currents to below UL60601-1 requirements. Every unit is 100% tested and inspected before packing. Note: All units are 50/60Hz & tolerance on input voltage is +/- 10%.

Units in this Series:

<u>Model</u>	<u>Input Voltage</u>	<u>Input Current</u>	<u>Output Voltage</u>	<u>Output Current</u>
178MG500	120Volts	4.33Amps	120Volts	4.17Amps
240MG500	240Volts	2.17Amps	240Volts	2.08Amps
289MG500	240Volts	2.17Amps	120Volts	4.17Amps
298MG500	120Volts	4.33Amps	240Volts	2.08Amps
178MG1000	120Volts	8.67Amps	120Volts	8.33Amps
240MG1000	240Volts	4.33Amps	240Volts	4.17Amps
289MG1000	240Volts	4.33Amps	120Volts	8.33Amps
298MG1000	120Volts	8.67Amps	240Volts	4.17Amps
178MG1800	120Volts	15.63Amps	120Volts	15.00Amps
240MG1800	240Volts	7.81Amps	240Volts	7.50Amps
289MG1800	240Volts	7.81Amps	120Volts	15.00Amps
298MG1800	120Volts	15.63Amps	240Volts	7.50Amps

Please observe the following Cautions!

-  Do not connect these units to an ungrounded source or use an extension cord that does not have a ground connection. Modifying or bypassing the ground pin for use in a non-grounded receptacle may lead to electrical shock, and is not recommended.
-  To reduce the risks of electric shock, do not remove the cover of this device for any reason. There are no user serviceable parts inside.
- These transformers are designed for interior use and are to be used in dry locations only; do not expose this transformer to rain, excessive moisture or other sources of conductive contaminants.
- These transformers should not be used in the presence of flammable gases or accelerants such as anesthetic mixtures, oxygen or nitrous oxide.
- The use of adaptor plugs or other accessories is not recommended.
- For equipment that requires an external ground connection use the external potential equalization conductor marked.



This symbol represents:

The Potential Equalization Conductor



The Protective Earth (Ground) Conductor

Built In Protection

Your Hammond MG Series isolation transformer has both a current breaker and an automatic thermal cut out built in for added protection. Should the breaker trip due to excessive current load, remove all of the loads by unplugging them from the receptacles. Cycle the on/off switch to reset the breaker. Re-evaluate the total current load before plugging all of the loads back into the receptacles. The sum of the current draw of the equipment plugged into the receptacles must not exceed the rated current of the transformer indicated on the product label.

Should your MG Series transformer ever over heat for any reason the built in TCO's will automatically cut the power to the receptacles. You must then unplug your transformer from your power source and allow the unit to sufficiently cool before restoring the power.

Installation and Unit Care:

- The device should always be located in such a way that it maintains proper ventilation and never be placed anywhere that may impede the flow of air through its ventilation slots. Transformers should be placed on a level surface and always oriented up-right on their rubber feet. Do not use in an ambient temperature higher than 60°C.
- Power cables should be routed so they are not likely to trip anybody and/or become pinched by items placed on them or against them. Special attention should be paid to areas where plugs enter the receptacles and where the cord exits the device.
- These Transformers should be cleaned only with mild cleaning solutions applied to a soft cloth and then wipe off the unit to remove light dirt and dust. Never spray liquids directly on these units to avoid electrical shock and damage to the unit.
- Do not use the unit if the plug or power supply cord has been impaired or if the transformer has been dropped and the enclosure or the receptacles are damaged.
- Do not use the unit if material has fallen into or liquid has spilled inside the transformer.

Environmental Conditions for Operation, Transport and Storage:

- Transport the unit in the original carton and packing material.
- Some of the units in this series are heavier than 18Kg (40 lb). Please use safe practices when lifting.
- Upon unpacking, use both integral handles on the unit to lift and transport. If carrying over extended distances, please use a proper material handling device to help transport
- This unit has environmental requirements similar to other electrical equipment. It is designed for indoor storage only, in areas where it will not be subject to excessive moisture, dust, or dirt.
- For Operation, do not expose this unit to temperatures below -15 or above 55°C (5 to 131°F).
- For Storage and Transportation, do not expose this unit to temperatures below -20 or above 65°C (4 to 149°F).
- In any condition, do not expose this unit to relative humidity in excess of 95% RH (non-condensing).

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