# POWER TRANSFORMER CHASSIS MOUNT : TOROIDAL MEDICAL SERIES

# VPM30-1670



Photo for illustration only

## Description:

The toroidal construction inherently reduces stray fields, increases efficiency and minimizes size compared to traditional EI transformers. The addition of a Flux Band further reduces the remaining stray fields. The shield between Primary and Secondary improves safety, reduces common mode signals and minimizes leakage current. Built with a Class F (155°) insulation system. A 140°C self-resetting thermal switch is included in each primary.

## Electrical Specifications (@25C)

1. Maximum Power: 50VA
2. Input Voltages: 100, 120, 220, 240VAC, 50/60Hz
3. Output Voltages: 15VAC @ 3.34A or 30VAC CT @ 1.67A
4. Voltage Regulation: 11.8% TYP from full load to no load
5. Temperature Rise: 45°C TYP
6. Hipot: 4000VAC, Primary to Secondary, Primary & Secondary to Shield & mounting surface
7. Efficiency: 88% TYP. @ full load
8. Earth Leakage: ≤10µA (See Fig. 1), Patient Leakage: ≤ 25µA (see Fig. 2)

## Agency File:

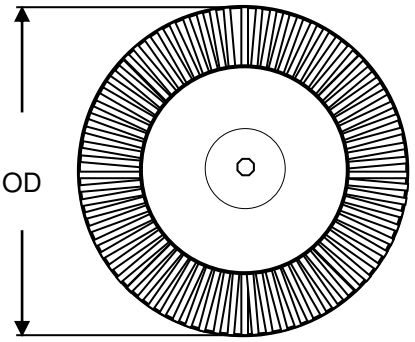
UL: File E122529, UL 60601-1/(R) 2012 Medical Electrical Equipment – Part 1 with 2 MOPP
CE: ES 60601-1 (IEC 60601-1:2005, MOD)
cUL: C22.2 No. 60601-1:14, Medical Electrical Equipment – Part 1
CB Certified.

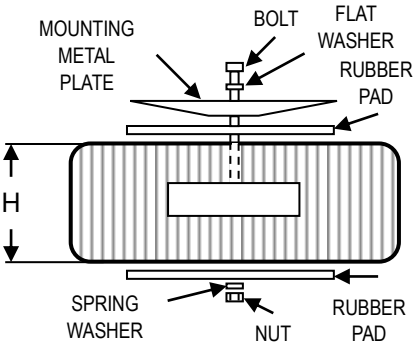
Dimensions: Inches (mm)

| O.D. | I.D. | HT.* |
|---|---|---|
| 3.6 (92) | 1.3(32) | 1.5(38) |

*Add 0.188 (3) to the height for mounting hardware

Weight: 0.7Kg




## Mounting:

Transformer is provided with one metal mounting plate, two rubber pads, M5 x 45mm bolt, nut, spring and flat washer.

## Connections:

Transformer is provided with 12" (305mm) long, 0.5" (12.7mm) stripped and tinned, stranded UL 1015 lead wire. Primaries are 22AWG, Secondaries are 20AWG, and Shield is 20AWG.
**The GRN/YEL shield lead is typically grounded. Do not lift transformer by leads!**

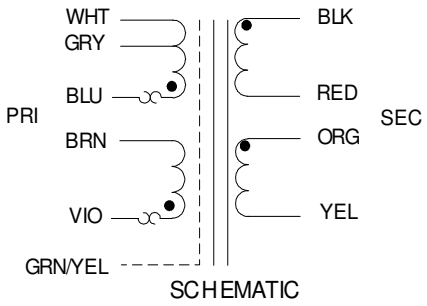
**Input Options:**

**100VAC:** Input to Gray & Blue, jumper White & Brown, jumper Blue & Violet.
**120VAC:** Input to White & Blue, jumper White & Brown, jumper Blue & Violet.
**220VAC:** Input to Gray & Violet, jumper Blue & Brown
**240VAC:** Input to White and Violet, jumper Blue & Brown

**Output Options:**

**15VAC:** Output from Black & Red, jumper Black & Orange, jumper Red to Yellow
**30VAC**: Output from Black & Yellow, jumper Red & Orange

Primary and secondary windings are designed to be connected in series or parallel. Windings are not intended to be used independently.




**RoHS Compliance:** As of manufacturing date February 2016, all standard products meet the requirements of 2015/863/EU, known as the RoHS 3 initiative.

* At printing, this document is considered "uncontrolled". Contact Triad Magnetics' website for current version

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Earth Leakage Current:

$V_{in}$ : Apply 264VAC @60Hz, BLU & BRN - YEL/GRN

Connect resistor and meter between: RED & ORG - YEL/GRN

Leakage Current = 10 uA MAX

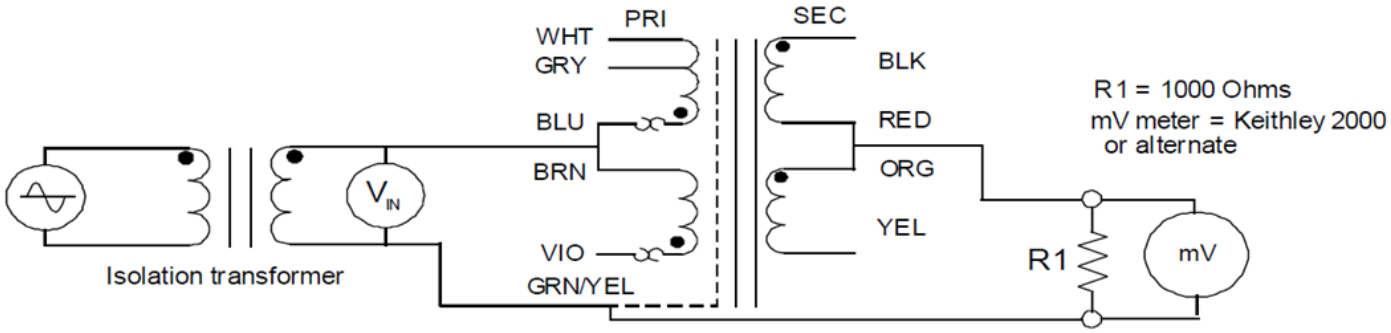



**Figure 1**

Patient Leakage Current:

$V_{in}$ : Apply 264VAC @60Hz, WHT - VIO,

(Tie BLU & BRN, Tie RED & ORG)

| | | |
|---|---|---|
| GRN/YEL - BLK = | 25 | uARMS MAX |
| GRN/YEL - Red & ORG = | 25 | uARMS MAX |
| GRN/YEL - YEL = | 25 | uARMS MAX |

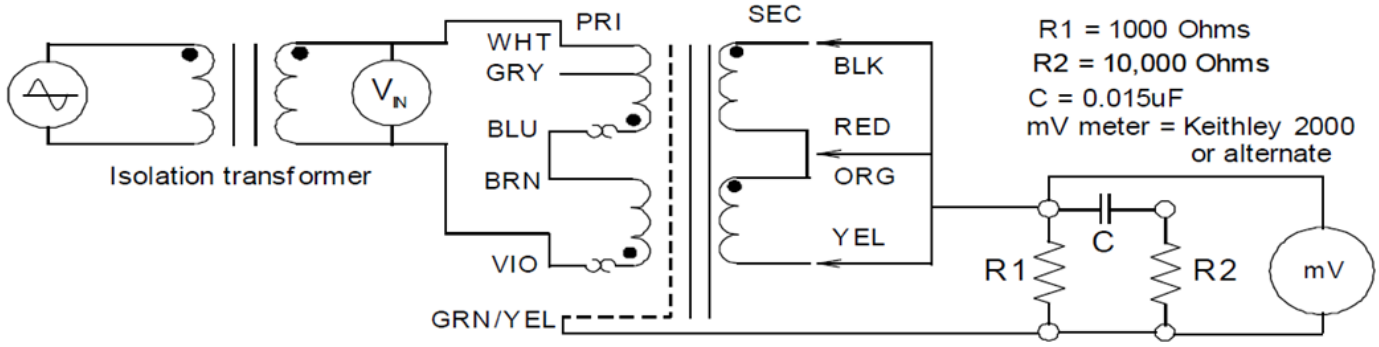



**Figure 2**