



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### VPM100-5000

#### 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: 500VA
2. Input Voltages: 100, 120, 220, 240VAC, 50/60Hz
3. Output Voltages: 50VAC @10.0A or 100VAC CT @ 5.0A
4. Voltage Regulation: 4.4% TYP from full load to no load
5. Temperature Rise: 50°C TYP
6. Hipot: 4000VAC, Primary to Secondary, Primary & Secondary to Shield & mounting surface
7. Efficiency: 95% TYP. @ full load
8. Earth Leakage:  $\leq 10\mu A$  (See Fig. 1), Patient Leakage:  $\leq 100\mu A$  (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.*
5.8 (147)	2.0(51)	2.5(64)

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

Weight: 4.6Kg

#### Mounting:

Transformer is provided with one metal mounting plate, two rubber pads, M8 x 70mm bolt, nut, spring and flat washer.

#### Connections:

Transformer is provided with 8" (203mm) long, 0.25" (6.35mm) stripped and tinned, stranded UL 1015 lead wire. Primaries are 20AWG, Secondaries are 16AWG, 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:

- 50VAC:** Output from Black & Red, jumper Black & Orange, jumper Red to Yellow  
**100VAC:** Output from Black & Yellow, jumper Red & Orange

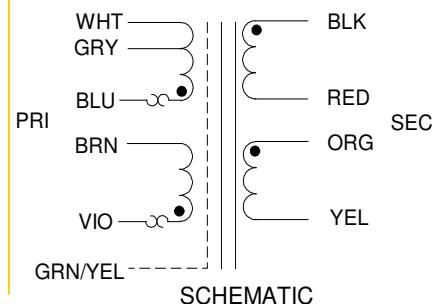
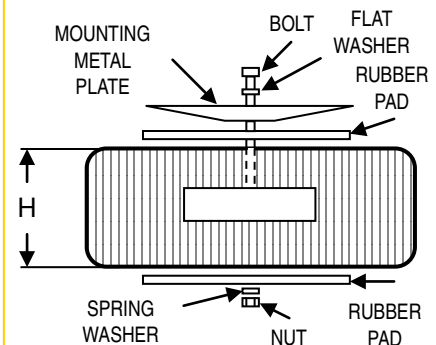
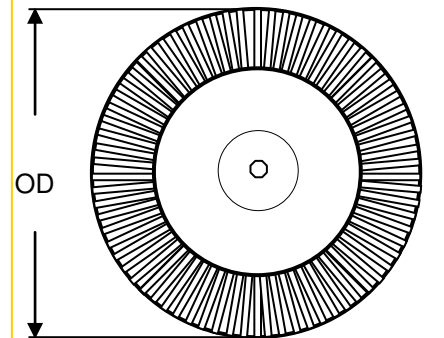
Primary and secondary windings are designed to be connected in series or parallel. Windings are not intended to be used independently.

**RoHS Compliance:** Meets the requirements of 2011/65/EU, known as the RoHS 2 initiative.

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



Photo for illustration only







### Earth Leakage Current:

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

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

Leakage Current = 10  $\mu$ A MAX

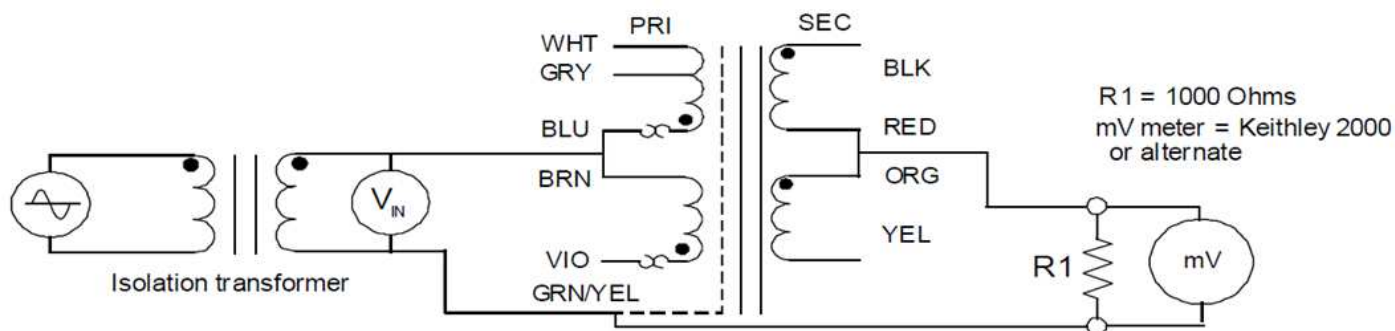


Figure 1

### Patient Leakage Current:

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

(Tie BLU & BRN, Tie RED & ORG)

GRN/YEL - BLK = 100  $\mu$ ARMS MAX

GRN/YEL - Red & ORG = 100  $\mu$ ARMS MAX

GRN/YEL - YEL = 100  $\mu$ ARMS MAX

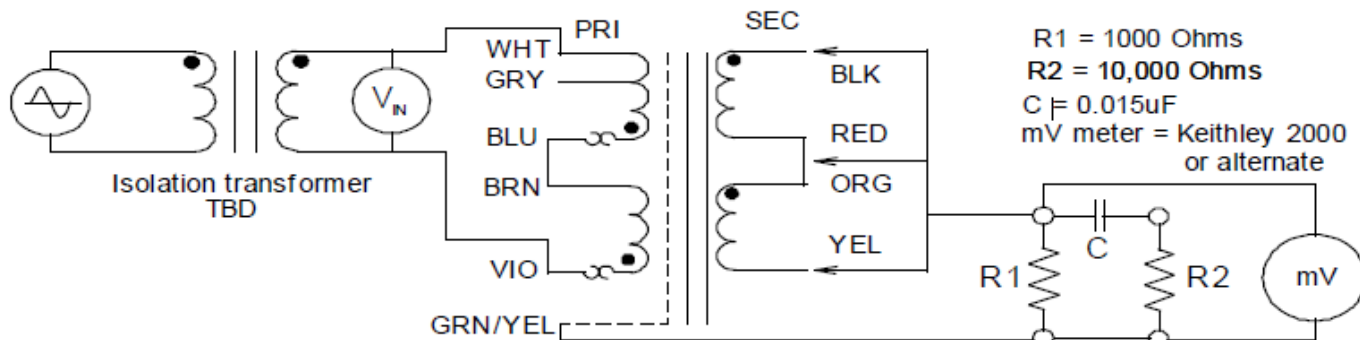


Figure 2