

## VPL28-350

### Electrical Specifications (@25C)

1. Maximum Power: 10.0VA
2. Input Voltage – Series: 230VAC @ 50/60Hz  
Parallel: 115VAC @ 50/60Hz
3. Output Voltage – Series: 28.0V CT @ 0.350A  
Parallel: 14.0V @ 0.700A
4. Voltage Regulation: 20% TYP @ full load to no load

### Construction:

Dual bobbin construction with an insulated shroud, both made of a high temperature material that exceeds UL flammability requirements. Shrouds are provided over the connections of the leads to the windings on both primary and secondary coils. Devices are designed with a minimum of 6mm creepage distance between the primary and secondary.

### Safety:

These units are designed with 3500VAC isolation between the primary and secondary, and also, between each winding and the core. Since the dual bobbin construction effectively reduces capacitance, electrostatic shielding is not required. International Series Transformers are designed and manufactured to meet most International Safety agency standards.

Devices are manufactured with a Class B (130° C) insulation system.

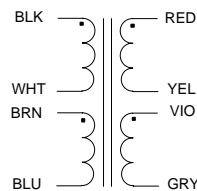
Dimensions: Units: In inches

| A     | B     | C     | D     | E    | F    |
|-------|-------|-------|-------|------|------|
| 1.750 | 2.812 | 1.750 | 2.375 | 8.00 | .187 |

Weight: 0.7 lbs.

D. Mounting Holes: x 2

### Schematic:

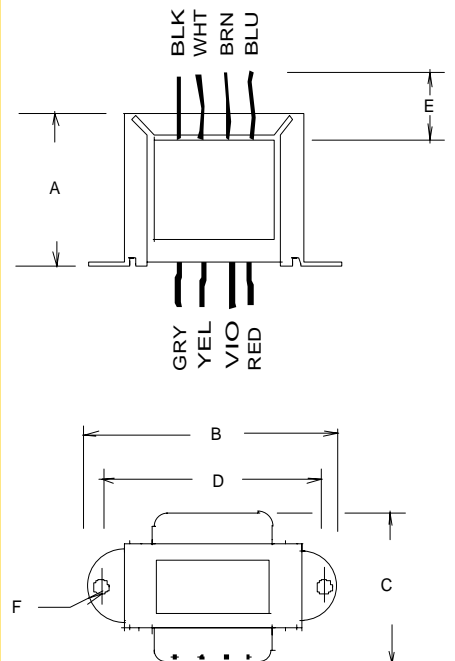


**Input:** Series – BLK to BLU, Jumper WHT to BRN  
Parallel – BLK to WHT, Jumper BLK to BRN and WHT to BLU

**Output:** Series – RED to GRY, Jumper YEL to VIO  
Parallel – RED to VIO, Jumper RED to VIO and YEL to GRY

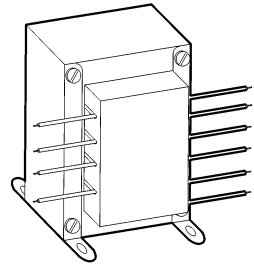
Primary and secondary windings are designed to be connected in series or parallel. Windings are not intended to be used independently.

**RoHS Compliance:** As of manufacturing date February 2005, all standard products meet the requirements of 2002/95/EC, known as the RoHS initiative.

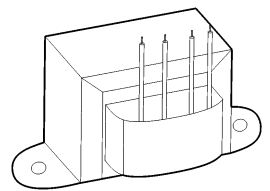


# Power Transformers

## Chassis Mount: Leaded World Series™



Case Type U



Case Type X

### :: Description

Triad International Series transformers are constructed with European style split bobbins to meet International safety agency standards. The split bobbin construction reduces interwinding capacitance and eliminates the need for electrostatic shielding.

### :: Specifications

Available in sizes from 5VA to 56 VA 115 V/ 230 V 50/60 Hz Primary windings; 3,500 V isolation between primary and secondary; designed with 6mm creepage distance primary to secondary.

### :: International Series

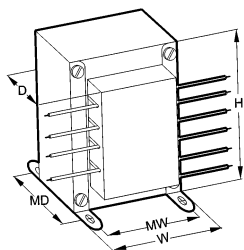
| Secton | Part Number | VA | Secondary Series Connected |        | Secondary Parallel Connected |        | Center Tap | Schematic | Case Type | Dimensions |         |         | Mounting Dimensions |        | Weight Lbs. |
|--------|-------------|----|----------------------------|--------|------------------------------|--------|------------|-----------|-----------|------------|---------|---------|---------------------|--------|-------------|
|        |             |    | Volts                      | Amps   | Volts                        | Amps   |            |           |           | H          | W       | D       | MW                  | MD     |             |
| A      | VPL10-500   | 5  | 10.0                       | 0.500  | 5.00                         | 1.000  | N          | 2         | X         | 1 1/16"    | 2 3/8"  | 1 1/16" | 2                   | •      | 0.4         |
|        | VPL12-400   | 5  | 12.6                       | 0.390  | 6.30                         | 0.780  | N          | 2         | X         | 1 1/16"    | 2 3/8"  | 1 1/16" | 2                   | •      | 0.4         |
|        | VPL14-360   | 5  | 14.0                       | 0.360  | 7.00                         | 0.710  | N          | 2         | X         | 1 1/16"    | 2 3/8"  | 1 1/16" | 2                   | •      | 0.4         |
|        | VPL16-300   | 5  | 16.0                       | 0.310  | 8.00                         | 0.620  | N          | 2         | X         | 1 1/16"    | 2 3/8"  | 1 1/16" | 2                   | •      | 0.4         |
|        | VPL20-250   | 5  | 20.0                       | 0.250  | 10.00                        | 0.500  | N          | 2         | X         | 1 1/16"    | 2 3/8"  | 1 1/16" | 2                   | •      | 0.4         |
|        | VPL24-210   | 5  | 24.0                       | 0.210  | 12.00                        | 0.420  | N          | 2         | X         | 1 1/16"    | 2 3/8"  | 1 1/16" | 2                   | •      | 0.4         |
|        | VPL26-190   | 5  | 26.8                       | 0.190  | 13.40                        | 0.370  | N          | 2         | X         | 1 1/16"    | 2 3/8"  | 1 1/16" | 2                   | •      | 0.4         |
|        | VPL28-180   | 5  | 28.0                       | 0.180  | 14.00                        | 0.360  | N          | 2         | X         | 1 1/16"    | 2 3/8"  | 1 1/16" | 2                   | •      | 0.4         |
|        | VPL36-140   | 5  | 36.0                       | 0.140  | 18.00                        | 0.280  | N          | 2         | X         | 1 1/16"    | 2 3/8"  | 1 1/16" | 2                   | •      | 0.4         |
| B      | VPL2-4000   | 10 | 2.5                        | 4.000  | 1.25                         | 8.000  | N          | 2         | X         | 1 3/4"     | 2 1/16" | 1 3/4"  | 2 3/8"              | •      | 0.7         |
|        | VPL10-1000  | 10 | 10.0                       | 1.000  | 5.00                         | 2.000  | N          | 2         | X         | 1 3/4"     | 2 1/16" | 1 3/4"  | 2 3/8"              | •      | 0.7         |
|        | VPL12-800   | 10 | 12.6                       | 0.790  | 6.30                         | 1.590  | N          | 1         | X         | 1 3/4"     | 2 1/16" | 1 3/4"  | 2 3/8"              | •      | 0.7         |
|        | VPL16-600   | 10 | 16.0                       | 0.630  | 8.00                         | 1.260  | N          | 2         | X         | 1 3/4"     | 2 1/16" | 1 3/4"  | 2 3/8"              | •      | 0.7         |
|        | VPL20-500   | 10 | 20.0                       | 0.500  | 10.00                        | 1.000  | N          | 2         | X         | 1 3/4"     | 2 1/16" | 1 3/4"  | 2 3/8"              | •      | 0.7         |
|        | VPL24-400   | 10 | 24.0                       | 0.410  | 12.00                        | 0.820  | N          | 2         | X         | 1 3/4"     | 2 1/16" | 1 3/4"  | 2 3/8"              | •      | 0.7         |
|        | VPL28-350   | 10 | 28.0                       | 0.350  | 14.00                        | 0.700  | N          | 2         | X         | 1 3/4"     | 2 1/16" | 1 3/4"  | 2 3/8"              | •      | 0.7         |
|        | VPL36-300   | 10 | 36.0                       | 0.280  | 18.00                        | 0.560  | N          | 2         | X         | 1 3/4"     | 2 1/16" | 1 3/4"  | 2 3/8"              | •      | 0.7         |
| C      | VPL2-10000  | 25 | 2.5                        | 10.000 | 1.25                         | 20.000 | N          | 2         | X         | 1 5/16"    | 3 1/4"  | 2 1/8"  | 2 5/16"             | •      | 1.3         |
|        | VPL10-2500  | 25 | 10.0                       | 2.500  | 5.00                         | 5.000  | N          | 2         | X         | 1 5/16"    | 3 1/4"  | 2 1/8"  | 2 5/16"             | •      | 1.3         |
|        | VPL12-2000  | 25 | 12.6                       | 1.980  | 6.30                         | 3.960  | Y          | 1         | X         | 1 5/16"    | 3 1/4"  | 2 1/8"  | 2 5/16"             | •      | 1.3         |
|        | VPL16-1600  | 25 | 16.0                       | 1.570  | 8.00                         | 3.130  | N          | 2         | X         | 1 5/16"    | 3 1/4"  | 2 1/8"  | 2 5/16"             | •      | 1.3         |
|        | VPL20-1200  | 25 | 20.0                       | 1.250  | 10.00                        | 2.500  | N          | 2         | X         | 1 5/16"    | 3 1/4"  | 2 1/8"  | 2 5/16"             | •      | 1.3         |
|        | VPL24-1100  | 25 | 24.0                       | 1.040  | 12.00                        | 2.080  | N          | 2         | X         | 1 5/16"    | 3 1/4"  | 2 1/8"  | 2 5/16"             | •      | 1.3         |
|        | VPL25-1000  | 25 | 25.2                       | 0.990  | 12.60                        | 1.980  | N          | 2         | X         | 1 5/16"    | 3 1/4"  | 2 1/8"  | 2 5/16"             | •      | 1.3         |
|        | VPL26-930   | 25 | 26.8                       | 0.930  | 13.40                        | 1.860  | N          | 2         | X         | 1 5/16"    | 3 1/4"  | 2 1/8"  | 2 5/16"             | •      | 1.3         |
|        | VPL28-900   | 25 | 28.0                       | 0.890  | 14.00                        | 1.790  | N          | 2         | X         | 1 5/16"    | 3 1/4"  | 2 1/8"  | 2 5/16"             | •      | 1.3         |
|        | VPL36-700   | 25 | 36.0                       | 0.700  | 18.00                        | 1.400  | N          | 2         | X         | 1 5/16"    | 3 1/4"  | 2 1/8"  | 2 5/16"             | •      | 1.3         |
| D      | VPL10-5000  | 50 | 10.0                       | 5.000  | 5.00                         | 10.000 | N          | 2         | X         | 2 1/16"    | 4"      | 2 1/4"  | 3 1/16"             | •      | 2.3         |
|        | VPL12-4000  | 50 | 12.6                       | 3.970  | 6.30                         | 7.940  | Y          | 1         | X         | 2 1/16"    | 4"      | 2 1/4"  | 3 1/16"             | •      | 2.3         |
|        | VPL16-3100  | 50 | 16.0                       | 3.125  | 8.00                         | 6.250  | N          | 2         | X         | 2 1/16"    | 4"      | 2 1/4"  | 3 1/16"             | •      | 2.3         |
|        | VPL20-2500  | 50 | 20.0                       | 2.500  | 10.00                        | 5.000  | N          | 2         | X         | 2 1/16"    | 4"      | 2 1/4"  | 3 1/16"             | •      | 2.3         |
|        | VPL24-2000  | 50 | 24.0                       | 2.083  | 12.00                        | 4.166  | N          | 2         | X         | 2 1/16"    | 4"      | 2 1/4"  | 3 1/16"             | •      | 2.3         |
|        | VPL25-1900  | 50 | 25.2                       | 1.984  | •                            | •      | N          | 3         | X         | 2 1/16"    | 4"      | 2 1/4"  | 3 1/16"             | •      | 2.3         |
|        | VPL26-1800  | 50 | 26.8                       | 1.866  | •                            | •      | N          | 3         | X         | 2 1/16"    | 4"      | 2-1/4"  | 3 1/16"             | •      | 2.3         |
|        | VPL28-1700  | 50 | 28.0                       | 1.786  | 14.00                        | 3.572  | N          | 2         | X         | 2 1/16"    | 4"      | 2 1/4"  | 3 1/16"             | •      | 2.3         |
|        | VPL36-1400  | 50 | 36.0                       | 1.389  | 18.00                        | 2.778  | N          | 2         | X         | 2 1/16"    | 4"      | 2 1/4"  | 3 1/16"             | •      | 2.3         |
| E      | VPL28-2000  | 56 | 28.0                       | 2.000  | 14.00                        | 4.000  | Y          | 1         | U         | 3 1/16"    | 2 1/16" | 2 1/8"  | 2"                  | 2 1/4" | 2.7         |

Technical Note: Primary and secondary windings are designed to be connected in Series or Parallel. Windings are not intended to be used independently.

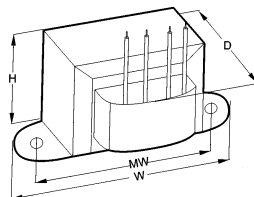
:: Outline Dimensions

**Technical Notes**

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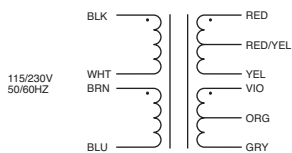


Case Type U

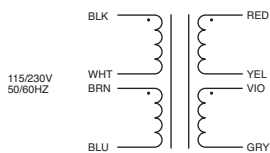


Case Type X

Schematic 1



Schematic 2



Schematic 3

