

# POWER TRANSFORMER **CHASSIS MOUNT: QUICK-CONNECT WORLD SERIES TM**

# VPS 36-3600

# **Electrical Specifications (@25C)**

1. Maximum Power: 130.0VA

2. Secondary: Series: 36.0V CT@ 3.6A

Parallel: 18.0V @ 7.2A

3. Voltage Regulation: 25% TYP @ full load to no load 4. Temperature Rise: 30C TYP (45C MAX allowed)

5. Insulation Resistance: 100MΩ

### **Construction:**

Dual bobbin construction with an insulated shroud, both made of a high temperature material that exceeds UL flammability requirements.

### Safety:

These units are designed with 4000VAC 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. World Series Transformers are designed and manufactured to meet the following agency approvals:







# **Agency File:**

UL: File E53148, UL 506, General Purpose.

CSA: File LR 37220. C22.2 NO. 66, General Purpose.

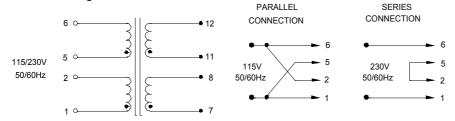
VDE: File 18786-3390-0001, VDE/EN 60 950, (IEC950) information Technology Equipment.

A. Dime	nsions:	Unit: In inches							
Н	W	D	А В		С	Т	MW	ML	
3-3/8	2-13/16	2-11/16	-	1-5/8	3/8	1/4	2-1/4	2-1/2	

B. Mounting Hole Size: 13/64"X3/8"

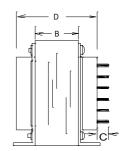
C. WT Lbs.: 4.1

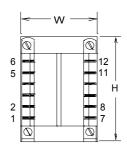
D. Schematic Diagram:

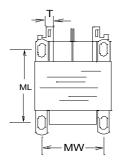


RoHS Compliance: As of manufacturing date February 2005, all standard products meet the requirements of 2002/95/EC, known as the RoHS initiative.









# Power Transformers

VDE File: 18786-3390-0001 UL File: E53148

CSA File: 221330





# Chassis Mount: Quick-Connect World

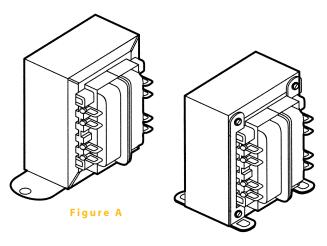


Figure B

# :: Description

Triad chassis mount World Series transformers are designed to meet U.S. and International standards including CSA, IEC, VDE and UL requirements. The transformers consist of a dual bobbin design positioned inside an insulating shroud and constructed with UL approved high temperature material. This design eliminates the need for electrostatic shielding since there is minimal capacitance between coils when using a dual bobbin configuration. The primary and secondary are both electrically isolated from each other, and from the core itself. Chassis mount World Series transformers are available in sizes ranging from 25 VA to 175 VA, and are equipped with convenient "quick connect" terminations.

# ::Specifications

**Primary:** 115/230 V, 50/60 Hz

### :: World Series

	Туре	Secondary				Dimensions							Mounting		Wt.
Section	No.	VA	Series	Parallel	Н	W	D	A	В	С	T	Figure	MW	ML	Lbs.
	VPS10-2500	25	10.0V CT @ 2.5A	5.0V @ 5.0A	25/16	213/16	115/16	2	11/8	5/16	3/16	A	2¾s	•	1.25
A	VPS10-4300	43	10.0V CT @ 4.3A	5.0V @ 8.6A	211/16	31/8	2	25/16	11/8	5/16	3/ <sub>16</sub>	A	213/16	•	1.60
	VPS10-8000	80	10.0V CT @ 8.0A	5.0V @ 16.0A	3	21/2	25/16	•	13/8	5/ <sub>16</sub>	³∕ <sub>16</sub>	В	2	21/4	2.80
	VPS10-13000	130	10.0V CT @ 13.0A	5.0V @ 26.0A	33/8	213/16	211/16	•	11/8	3/8	1/4	В	21/4	21/2	4.10
	VPS10-17500	175	10.0V CT @ 17.5A	5.0V @ 35.0A	3¾	31/8	213/16	•	11//8	3∕8	1/4	В	2½	2½	5.50
	VPS12-2000	25	12.6V CT @ 2.0A	6.3V @ 4.0A	25/16	213/16	115/16	2	11/8	5∕ <sub>16</sub>	3∕16	A	2⅓8	•	1.25
	VPS12-3400	43	12.6V CT @ 3.4A	6.3V @ 6.8A	211/16	31/8	2	25/16	11/8	5/16	3/ <sub>16</sub>	A	213/16	•	1.60
В	VPS12-6300 VPS12-10300	80	12.6V CT @ 6.3A 12.6V CT @ 10.3A	6.3V @ 12.6A	3 3¾	2½ 2½	2 <sup>5</sup> / <sub>16</sub> 2 <sup>11</sup> / <sub>16</sub>	•	1½ 1½	5∕16 3∕8	3/ <sub>16</sub> 1/ <sub>4</sub>	B B	2 21/4	2½ 2½	2.80 4.10
	VPS12-14000	130 175	12.6V CT @ 10.5A 12.6V CT @ 14.0A	6.3V @ 20.6A 6.3V @ 28.0A	3 <sup>3</sup> / <sub>4</sub>	31/8	213/16		178	78 3/8	1/4	В	21/2	21/2	5.50
•••••	•••••	•••••	•••••				• • • • • • • • • • • • • • • • • • • •		•••••	• • • • • • • • • • • • • • • • • • • •	•••••	· <mark>····</mark>	•••••	•••••	•••••
	VPS16-1600 VPS16-2700	25 43	16.0V CT @ 1.6A 16.0V CT @ 2.7A	8.0V @ 3.2A 8.0V @ 5.4A	2 <sup>5</sup> / <sub>16</sub> 2 <sup>1</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>8</sub>	1 <sup>15</sup> / <sub>16</sub> 2	2 2 <sup>5</sup> / <sub>16</sub>	1½ 1½	5∕ <sub>16</sub> 5∕ <sub>16</sub>	3/ <sub>16</sub> 3/ <sub>16</sub>	A A	2 <sup>3</sup> / <sub>8</sub> 2 <sup>13</sup> / <sub>16</sub>	•	1.25 1.60
C	VPS16-5000	80	16.0V CT @ 5.0A	8.0V @ 5.4A 8.0V @ 10.0A	3	3/8 2½	25/16	2716 •	1/8 1¾8	716 5/16	716 3/ <sub>16</sub>	B	2 716	21/4	2.80
0	VPS16-8100	130	16.0V CT @ 8.1A	8.0V @ 16.2A	3 <sup>3</sup> / <sub>8</sub>	213/16	211/16		15/8	3/8	1/4	В	21/4	21/2	4.10
	VPS16-11000	175	16.0V CT @ 11.0A	8.0V @ 22.0A	33/4	31/8	213/16		15/8	3/8	1/4	В	21/2	21/2	5.50
•••••	VPS20-1250	25	20.0V CT @ 1.25A	10.0V @ 2.5A	25/16	213/16	115/16	2	11//8	5/ <sub>16</sub>	³/ <sub>16</sub>	Α	23/8	•	1.25
	VPS20-2200	43	20.0V CT @ 2.2A	10.0V @ 4.4A	211/16	31/8	2	25/16	11/8	5/16	3/16	A	213/16	•	1.60
D	VPS20-4000	80	20.0V CT @ 4.0A	10.0V @ 8.0A	3	21/2	25/16	•	13/8	5/16	3/16	В	2	21/4	2.80
	VPS20-6500	130	20.0V CT @ 6.5A	10.0V @ 13.0A	33/8	213/16	211/16	•	11/8	3∕8	1/4	В	21/4	21/2	4.10
	VPS20-8800	175	20.0V CT @ 8.8A	10.0V @ 17.6A	3¾	31/8	213/16	•	11/8	3∕8	1/4	В	21/2	21/2	5.50
	VPS24-1000	25	24.0V CT @ 1.0A	12.0V @ 2.0A	25/16	213/16	115/16	2	11/8	5∕ <sub>16</sub>	³∕ <sub>16</sub>	A	2⅓8	•	1.25
	VPS24-1800	43	24.0V CT @ 1.8A	12.0V @ 3.6A	211/16	31/8	2	25/16	11/8	5∕ <sub>16</sub>	³∕ <sub>16</sub>	A	213/16	•	1.60
E	VPS24-3300	80	24.0V CT @ 3.3A	12.0V @ 6.6A	3	21/2	25/16	•	13/8	5∕ <sub>16</sub>	³∕ <sub>16</sub>	В	2	21/4	2.80
	VPS24-5400	130	24.0V CT @ 5.4A	12.0V @ 10.8A	33/8	213/16	211/16	٠	15/8	3/8	1/4	В	21/4	21/2	4.10
	VPS24-7300	175	24.0V CT @ 7.3A	12.0V @ 14.6A	3¾	31/8	213/16	•	11//8	3∕8	1/4	В	21/2	2½	5.50
	VPS28-900	25	28.0V CT @ 0.9A	14.0V @ 1.8A	25/16	213/16	115/16	2	11/8	5/16	3/16	A	23/8	٠	1.25
	VPS28-1500	43	28.0V CT @ 1.5A	14.0V @ 3.0A	211/16	31/8	2	25/16	11/8	5/16	3/ <sub>16</sub>	A	213/16	•	1.60
F	VPS28-2800 VPS28-4600	80	28.0V CT @ 2.8A 28.0V CT @ 4.6A	14.0V @ 5.6A	3 3¾	2½ 2½	2 <sup>5</sup> / <sub>16</sub> 2 <sup>11</sup> / <sub>16</sub>	•	1½ 1½	5/16 3/8	3/ <sub>16</sub> 1/ <sub>4</sub>	B B	2 21/4	2½ 2½	2.80
	VPS28-6250	130 175	28.0V CT @ 4.0A 28.0V CT @ 6.25A	14.0V @ 9.2A 14.0V @ 12.5A	3 <sup>3</sup> / <sub>4</sub>	31/8	213/16		178	78 3/8	1/4	В	21/2	21/2	4.10 5.50
•••••	••••••	•••••						•••••	•••••	•••••	•••••	•••••	•••••	•••••	
G	VPS36-700 VPS36-1200	25 43	36.0V CT @ 0.7A 36.0V CT @ 1.2A	18.0V @ 1.4A 18.0V @ 2.4A	2 <sup>5</sup> / <sub>16</sub> 2 <sup>11</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>8</sub>	1 <sup>15</sup> / <sub>16</sub> 2	2 2 <sup>5</sup> / <sub>16</sub>	11/8 11/8	√16 √16	3/ <sub>16</sub> 3/ <sub>16</sub>	A A	2 <sup>3</sup> / <sub>8</sub> 2 <sup>13</sup> / <sub>16</sub>	•	1.25 1.60
	VPS36-2200	80	36.0V CT @ 2.2A	18.0V @ 2.4A 18.0V @ 4.4A	3	3/8 2½	25/16	△/16 •	1/8 1¾8	716 5/16	716 3/ <sub>16</sub>	B	2 716	21/4	2.80
	VPS36-3600	130	36.0V CT @ 3.6A	18.0V @ 7.2A	3 <sup>3</sup> / <sub>8</sub>	213/16	211/16		15/8	3/8	1/4	В	21/4	21/2	4.10
	VPS36-4800	175	36.0V CT @ 4.8A	18.0V @ 9.6A	33/4	31/8	213/16	•	15/8	3/8	1/4	В	21/2	21/2	5.50
Н	VPS56-2300	80	36.0V CT @ 2.3A	28.0V @ 4.6A	3⅓8	27/8	31/6	27/8	1½	3∕8	1/4	В	21/4	2½	4.2
	VPS230-110	25	230.0V CT @ 0.11A	115.0V @ 0.22A	25/16	213/16	115/16	2	11/8	5∕ <sub>16</sub>	³∕ <sub>16</sub>	A	2⅓8	•	1.25
	VPS230-190	43	230.0V CT @ 0.19A	115.0V @ 0.38A	211/16	31/8	2	25/16	11/8	5/16	3/ <sub>16</sub>	A	213/16	•	1.60
I	VPS230-350	80	230.0V CT @ 0.35A	115.0V @ 0.7A	3	21/2	25/16	•	13/8	5∕ <sub>16</sub>	3∕16	В	2	21/4	2.80
	VPS230-570	130	230.0V CT @ 0.57A	115.0V @ 1.14A	33/8	213/16	211/16	•	11/8	3∕8	1/4	В	21/4	21/2	4.10
	VPS230-760	175	230.0V CT @ 0.76A	115.0V @ 1.52A	3¾	31/8	213/16	٠	15/8	3∕8	1/4	В	21/2	21/2	5.50

# :: Outline Dimensions

- Technical Notes
   Hi-pot tested at 4,000 VRMS.
   Both primary and secondary coils may be connected as either series or parallel, but both must be used simultaneously.

