



# Power transformation and conversion products



**Avel Lindberg, Inc.**

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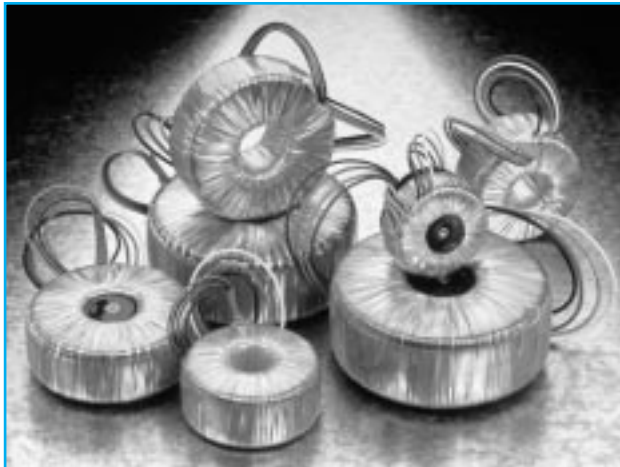
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**SAMPLE**

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Some transformers above are shown with optional resin-filled center with threaded bushing (recommended for loads in excess of 600VA). See page 10 for details on adding this option.

AVEL's polyester tape finish with dish mounting has proven to be the most popular method of constructing toroidal transformers for modern-day electronics.

This is the most inexpensive way to meet J.I.T. schedules by purchasing "off the shelf" from the wide range of toroids shown on the following pages.

Y23 Range transformers are constructed to high standards, and are certified to or in compliance with most worldwide safety agency standards. Our unique double-insulated primary assembly step required by many.

If your requirement falls outside our standard range we would be pleased to provide a custom solution (see page 9 for custom guidelines and request).

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**General Specifications**

**Primaries:** 115V + 115V. Frequency: 50/60 Hz.  
**Highpot tested at:** 4K VRMS.

**Secondary voltage tolerance:** Within 3% at normal input and full load.

**Mounting hardware:**

Metal dish, 2 foam pads, bolt, washer, and nut.

**Leads:** 150 mm / 6" (±5 mm / .2") stranded, PVC insulated. Double-insulated primary leads: UL1672 (105° C, 300 V). Secondary leads: UL3266 (125° C, 300 V)

**Clearance:** allow 4 mm / .2" over mounting hardware.

**Certifications:** UL506/CSA 22.2, No. 66; UL1411/CSA 22.2 No. 1-94; UL1950/CSA 22.2 No. 950-95; UL2601 (UL544)/CSA 22.2 No.601.1; CE marked and tested in accordance with EN61558 (replacing EN60742), EN60065, EN60950, BS415, VDE0550.

**Performance Details**

Efficiency at maximum continuous VA rating			
Load (VA)	Efficiency (%)	Copper Loss (W)	Iron loss (W)
15	84.8	2.5	0.2
30	84.8	5.1	0.3
50	86.9	7.1	0.4
63	87.7	8.3	0.5
80	88.9	9.3	0.7
100	90.4	9.8	0.8
120	90.8	11.3	0.9
160	91.7	13.3	1.1
230	93.0	15.7	1.5
250	93.2	16.6	1.6
330	94.0	19.2	1.9
500	95.1	23.0	2.8
625	95.4	26.8	3.3
800	95.6	33.0	4.1
1000	96.0	36.2	5.4

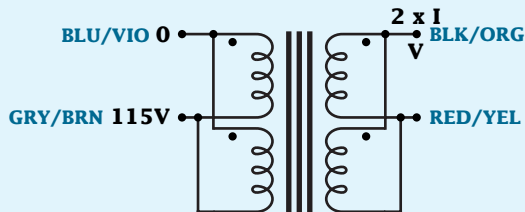
Transformers may be operated at a lower temperature with improved regulation. This table indicates temperature rise which may be expected under continuous conditions at lower VA ratings.

Derated VA		Regulation (%)	Temperature Rise (°C)
From	To		
30	20	11	25
60	50	10	35
100	75	8	35
160	120	6	35
230	175	5	35
330	250	5	35
500	400	4	40

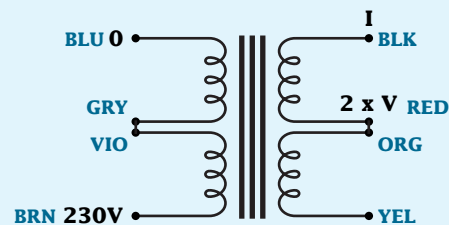
**Transformer Connections**

Windings may be connected in parallel or in series. If they are isolated from each other, the applied potential between them must not exceed 250V DC.

**Primaries and Secondaries Parallel Connected**



**Primaries and Secondaries Series Connected**



**Primaries Series Connected, Secondaries Independent**

