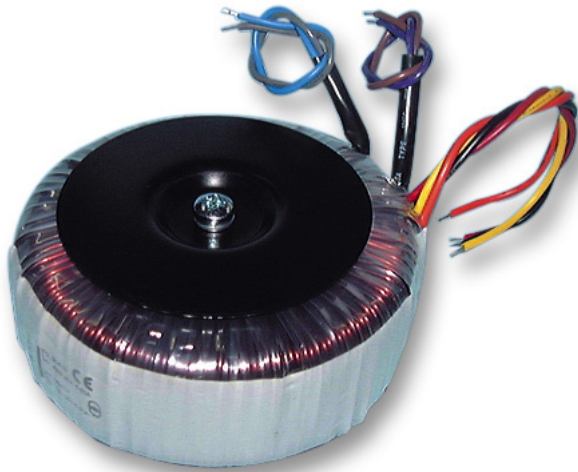


FG Series, 230V ac

Toroidal Single Primary Transformers

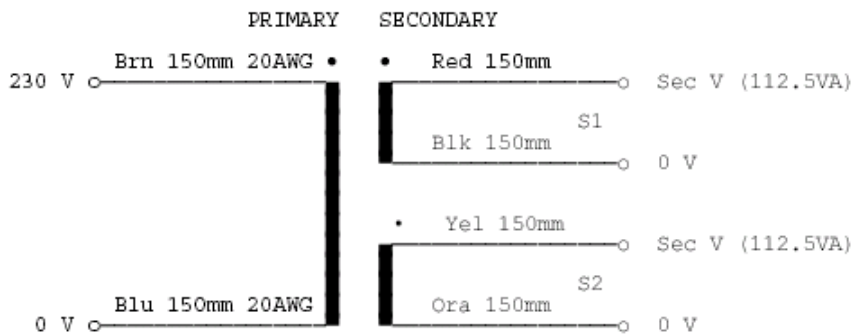


A high quality range of open style toroidal transformers with flying leads. Featuring a single primary winding rated at 230V 50/60Hz, and dual secondary windings. Secondary windings can be connected in series or parallel or used independently.

Features:

- Very high quality construction.
- High efficiency and smaller size compared to conventional EI transformers.
- Extremely low radiated magnetic field, suitable for sensitive electronics.
- Flexible lead outs can be trimmed to any length without the need of enamel removal.
- Designed, tested and manufactured in accordance with EN60742, EN60065 and EN60950.
- 100% electrical and flash tested.

Schematic



Primary Ratings

Input Voltage : 230V ±10% 50/60Hz.
 DC resistance : 2.2 Ohms ±15% at 20°C.
 Magnetising current : 28.0mA approximate at 230V 50Hz.

Terminations

Primary leads double insulated with PVC sleeving for a minimum of 20mm.
 Lead lengths ±5mm approximate. All leads ends tinned to 6mm.

Temperature Class

Winding wire : Class H (180°C)
 Insulated system : Class B (130°C)
 Leadout insulation : Class A (105°C)
 Overall : Class A (105°C)



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Secondary Winding Specifications

On Load Sec V	Rated amps per Sec	Off load Sec V	Sec Flex Gauge	Sec Ohms at 20°C	Part Number
12	9.38	12.7	16 AWG	0.05	TI-027275
15	7.50	16.1		0.08	TI-027276
18	6.25	19.2	18 AWG	0.12	TI-027277
25	4.50	26.7		0.21	TI-027278
30	3.75	32.2	20 AWG	0.32	TI-027279
55	2.05	58.7		1.00	TI-027280

Specifications

VA	Regulation % typical	Iron Loss Watts	Copper Loss Watts	Temperature rise (°C)	Efficiency % typical	Diameter	Weight (kg)	Height	Fixing Bolt
15	14.0	0.25	2.5	27	84%	64.5	0.3	30.5	M5 x 40
30		0.37	4.9	42	85%	73.0	0.5	31.0	
50	13.0	0.46	7.3	50	87%	81.0	0.6	34.5	
80	11.0	0.58	9.5	52	89%	87.5	1.0	39.0	M6 x 50
120	9.0	0.98	11.4	54	91%	95.0	1.3	47.0	
160	8.0	1.12	13.9			105.0	1.6		
225	7.0	1.49	16.9	56	92%	110.0	2.2	51.0	M6 x 60
300	6.0	1.8	19.8		93%	125.0	2.8	54.0	
500	5.0	2.76	24.4	53	95%	136.0	4.3	59.0	M8 x 75
625		3.17	29.4	59		139.0	5.2	71.0	M8 x 80
800	4.0	4.16	35.3			163.0	6.3	59.0	
1000		4.49	39.1	60		96%	167.0	7.5	

Dimensions : Millimetres

Maximum ambient temperature 40°C.

Overall temperature rating Class A (105°C).

Secondary voltage tolerance $\pm 1\%$ at nominal input and full resistive load.

All leads 150mm long, stripped and tinned for last 6.0mm.

No mounting screw supplied.

Supplied with:

1 x 90mm dished mounting plate

2 x 90mm neoprene mounting pads

1 x M6 x 60mm screw, nut and washer.

Note: Under no circumstances should both ends of any fixing bolt be allowed to come simultaneously in contact with metal chassis or framework so that an electrical path is formed through the bolt in the centre of the transformer via the external framework. This would constitute a shorted turn and would cause irreparable damage.



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Part Numbers

Specification	Load (VA)	Part Number
0-6V, 0-6V @ 1.25A	15	TI-027240
0-9V, 0-9V @ 0.83A		TI-027241
0-12V, 0-12V @ 0.63A		TI-027242
0-15V, 0-15V @ 0.5A		TI-027243
0-18V, 0-18V @ 0.42A		TI-027244
0-6V, 0-6V @ 2.5A	30	TI-027245
0-9V, 0-9V @ 1.67A		TI-027246
0-12V, 0-12V @ 1.25A		TI-027247
0-15V, 0-15V @ 1A		TI-027248
0-18V, 0-18V @ 0.83A		TI-027249
0-25V, 0-25V @ 0.6A		TI-027250
0-6V, 0-6V @ 4.17A	50	TI-027251
0-9V, 0-9V @ 2.78A		TI-027252
0-12V, 0-12V @ 2.08A		TI-027253
0-15V, 0-15V @ 1.67A		TI-027254
0-18V, 0-18V @ 1.39A		TI-027255
0-25V, 0-25V @ 1A		TI-027256
0-55V, 0-55V @ 0.45A		TI-027257
0-9V, 0-9V @ 4.44A	80	TI-027258
0-12V, 0-12V @ 3.33A		TI-027259
0-15V, 0-15V @ 2.67A		TI-027260
0-18V, 0-18V @ 2.22A		TI-027261
0-25V, 0-25V @ 1.6A		TI-027262
0-55V, 0-55V @ 0.73A		TI-027263
0-12V, 0-12V @ 5A	120	TI-027264
0-15V, 0-15V @ 4A		TI-027265
0-18V, 0-18V @ 3.33A		TI-027266
0-25V, 0-25V @ 2.4A		TI-027267
0-55V, 0-55V @ 1.09A		TI-027268



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Part Numbers

Specification	Load (VA)	Part Number
0-12V, 0-12V @ 6.67A	160	TI-027269
0-15V, 0-15V @ 5.33A		TI-027270
0-18V, 0-18V @ 4.44A		TI-027271
0-25V, 0-25V @ 3.2A		TI-027272
0-30V, 0-30V @ 2.67A		TI-027273
0-55V, 0-55V @ 1.45A		TI-027274
0-12V, 0-12V @ 9.38A	225	TI-027275
0-15V, 0-15V @ 7.5A		TI-027276
0-18V, 0-18V @ 6.25A		TI-027277
0-25V, 0-25V @ 4.5A		TI-027278
0-30V, 0-30V @ 3.75A		TI-027279
0-55V, 0-55V @ 2.05A		TI-027280
0-25V, 0-25V @ 6A	300	TI-027281
0-30V, 0-30V @ 5A		TI-027282
0-35V, 0-35V @ 6A		TI-027283
0-55V, 0-55V @ 2.73A		TI-027284
0-25V, 0-25V @ 10A	500	TI-027285
0-30V, 0-30V @ 8.33A		TI-027286
0-35V, 0-35V @ 7.14A		TI-027287
0-40V, 0-40V @ 6.25A		TI-027288
0-45V, 0-45V @ 5.56A		TI-027289
0-50V, 0-50V @ 5A		TI-027290
0-55V, 0-55V @ 4.55A		TI-027291
0-40V, 0-40V @ 7.81A		TI-027292
0-45V, 0-45V @ 6.94A	625	TI-027293
0-50V, 0-50V @ 6.25A		TI-027294
0-55V, 0-55V @ 5.68A		TI-027295
0-40V, 0-40V @ 10A	800	TI-027296
0-45V, 0-45V @ 8.89A		TI-027297
0-50V, 0-50V @ 8A		TI-027298
0-55V, 0-55V @ 7.27A		TI-027299
0-40V, 0-40V @ 12.5A	1000	TI-027300
0-45V, 0-45V @ 11.11A		TI-027301
0-50V, 0-50V @ 10A		TI-027302
0-55V, 0-55V @ 9.09A		TI-027303



FG Series, 230V ac

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Notes:

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