



TL99 Series

- Low magnetic stray field emissions
- Low standby current
- Low profile
- Magnetic shielded
- Fully encapsulated
- High efficiency
- High ambient operating temperature (+60°C maximum)
- Power – 1.6VA to 85VA
- Primary – Dual primary (115V/230V 50/60Hz)
- Secondary – Series or parallel
- Dielectric strength – 4000Vrms
- Insulation class – Class F (155°C)
- Agency approvals
 - TUV / CE: EN60950 / EN60065
 - UL: UL506 / UL1411 / UL60065
 - C-UL: CSA C22.2 #66 / CSA C22.2 #1 / CSA C22.2 #60065-03

Product Series	Dimensions (mm)									Weight (g)
	A	B	C	D	E	F	G	H	I	
1.6 VA	40.0	40.0	18.5	4.0	SQ0.64	Ø3.5	35.56	5.08	2.54	80
3.2 VA	45.0	45.0	19.5	4.0	SQ0.64	Ø3.5	40.64	5.08	2.54	110
5.0 VA	50.0	50.0	19.5	4.0	SQ0.64	Ø3.5	45.72	5.08	2.54	140
7.0 VA	50.0	50.0	23.1	4.0	SQ0.64	Ø3.5	45.72	5.08	2.54	170
10 VA	56.0	56.0	26.0	4.0	SQ0.8	Ø3.5	50.80	5.08	2.54	230
15 VA	61.0	61.0	26.3	4.0	SQ0.8	Ø3.5	55.88	5.08	2.54	300
25 VA	61.0	61.0	37.5	4.0	SQ0.8	Ø3.5	55.88	5.08	2.54	400
35 VA	75.0	75.0	37.5	4.0	SQ0.8	Ø6.0	66.04	5.08	2.54	560
50 VA	82.4	82.4	37.5	4.0	SQ1.0	Ø6.0	76.20	5.08	2.54	760
65 VA	92.0	92.0	39.0	4.0	SQ1.0	Ø7.0	83.82	7.62	2.54	980
85 VA	100.0	100.0	42.0	4.0	SQ1.0	Ø7.0	91.44	7.62	2.54	1300
Tolerance	typ.	typ.	typ.	± 1.0	± 0.1	± 0.3	± 0.5	± 0.3	± 0.3	approx.

Note: 1) Unused pins are omitted for standard parts. Unused pins can be provided on request.
 2) Pin positions #1, 8, 9, 16, 17 & 18 are invalid for the 1.6VA series.
 3) 1.6VA to 25VA series – blind center hole; 35VA to 85VA series – through center hole.

Product Series	Part Number	Input Voltage (V)	Secondary RMS Rating		ta (°C)
			Series	Parallel	
1.6 VA	TL99-0016-012	2 x 115	12V @ 133mA	6V @ 266mA	60
	TL99-0016-014		14V @ 114mA	7V @ 228mA	
	TL99-0016-018		18V @ 89mA	9V @ 178mA	
	TL99-0016-024		24V @ 67mA	12V @ 134mA	
	TL99-0016-030		30V @ 53mA	15V @ 106mA	
	TL99-0016-036		36V @ 44mA	18V @ 88mA	
	TL99-0016-044		44V @ 36mA	22V @ 72mA	
	TL99-0016-048		48V @ 33mA	24V @ 66mA	
3.2 VA	TL99-0032-012	2 x 115	12V @ 266mA	6V @ 532mA	60
	TL99-0032-014		14V @ 229mA	7V @ 458mA	
	TL99-0032-018		18V @ 178mA	9V @ 356mA	
	TL99-0032-024		24V @ 133mA	12V @ 266mA	
	TL99-0032-030		30V @ 107mA	15V @ 214mA	
	TL99-0032-036		36V @ 89mA	18V @ 178mA	
	TL99-0032-044		44V @ 73mA	22V @ 146mA	
	TL99-0032-048		48V @ 66mA	24V @ 132mA	
5.0 VA	TL99-0050-012	2 x 115	12V @ 416mA	6V @ 832mA	60
	TL99-0050-014		14V @ 357mA	7V @ 714mA	
	TL99-0050-018		18V @ 278mA	9V @ 556mA	
	TL99-0050-024		24V @ 208mA	12V @ 416mA	
	TL99-0050-030		30V @ 167mA	15V @ 334mA	
	TL99-0050-036		36V @ 139mA	18V @ 278mA	
	TL99-0050-044		44V @ 114mA	22V @ 228mA	
	TL99-0050-048		48V @ 104mA	24V @ 208mA	
7.0 VA	TL99-0070-012	2 x 115	12V @ 583mA	6V @ 1166mA	60
	TL99-0070-014		14V @ 500mA	7V @ 1000mA	
	TL99-0070-018		18V @ 389mA	9V @ 778mA	
	TL99-0070-024		24V @ 292mA	12V @ 584mA	
	TL99-0070-030		30V @ 233mA	15V @ 466mA	
	TL99-0070-036		36V @ 194mA	18V @ 388mA	
	TL99-0070-044		44V @ 159mA	22V @ 318mA	
	TL99-0070-048		48V @ 145mA	24V @ 290mA	
TL99-0070-230	230V @ 30mA	115V @ 60mA			
10 VA	TL99-0100-012	2 x 115	12V @ 833mA	6V @ 1666mA	60
	TL99-0100-014		14V @ 714mA	7V @ 1428mA	
	TL99-0100-018		18V @ 556mA	9V @ 1112mA	
	TL99-0100-024		24V @ 417mA	12V @ 834mA	
	TL99-0100-030		30V @ 333mA	15V @ 666mA	
	TL99-0100-036		36V @ 278mA	18V @ 556mA	
	TL99-0100-044		44V @ 227mA	22V @ 454mA	
	TL99-0100-048		48V @ 208mA	24V @ 416mA	
TL99-0100-230	230V @ 43mA	115V @ 86mA			
15 VA	TL99-0150-012	2 x 115	12V @ 1250mA	6V @ 2500mA	60
	TL99-0150-014		14V @ 1071mA	7V @ 2142mA	
	TL99-0150-018		18V @ 833mA	9V @ 1666mA	
	TL99-0150-024		24V @ 625mA	12V @ 1250mA	
	TL99-0150-030		30V @ 500mA	15V @ 1000mA	
	TL99-0150-036		36V @ 417mA	18V @ 834mA	
	TL99-0150-044		44V @ 341mA	22V @ 682mA	
	TL99-0150-048		48V @ 312mA	24V @ 624mA	

Product Series	Part Number	Input Voltage (V)	Secondary RMS Rating		ta (°C)
			Series	Parallel	
25 VA	TL99-0250-012	2 x 115	12V @ 2083mA	6V @ 4166mA	40
	TL99-0250-014		14V @ 1785mA	7V @ 3570mA	
	TL99-0250-018		18V @ 1377mA	9V @ 2754mA	
	TL99-0250-024		24V @ 1041mA	12V @ 2082mA	
	TL99-0250-030		30V @ 832mA	15V @ 1664mA	
	TL99-0250-036		36V @ 694mA	18V @ 1388mA	
	TL99-0250-044		44V @ 568mA	22V @ 1136mA	
	TL99-0250-048		48V @ 520mA	24V @ 1040mA	
	TL99-0250-230		230V @ 108mA	115V @ 216mA	
35 VA	TL99-0350-012	2 x 115	12V @ 2916mA	6V @ 5832mA	40
	TL99-0350-014		14V @ 2500mA	7V @ 5000mA	
	TL99-0350-018		18V @ 1944mA	9V @ 3888mA	
	TL99-0350-024		24V @ 1458mA	12V @ 2916mA	
	TL99-0350-030		30V @ 1167mA	15V @ 2334mA	
	TL99-0350-036		36V @ 972mA	18V @ 1944mA	
	TL99-0350-044		44V @ 795mA	22V @ 1590mA	
	TL99-0350-048		48V @ 729mA	24V @ 1458mA	
	TL99-0350-230		230V @ 152mA	115V @ 304mA	
50 VA	TL99-0500-012	2 x 115	12V @ 4166mA	6V @ 8332mA	60
	TL99-0500-014		14V @ 3571mA	7V @ 7142mA	
	TL99-0500-018		18V @ 2777mA	9V @ 5554mA	
	TL99-0500-024		24V @ 2083mA	12V @ 4166mA	
	TL99-0500-030		30V @ 1666mA	15V @ 3332mA	
	TL99-0500-036		36V @ 1388mA	18V @ 2776mA	
	TL99-0500-044		44V @ 1136mA	22V @ 2272mA	
	TL99-0500-048		48V @ 1041mA	24V @ 2082mA	
	TL99-0500-230		230V @ 217mA	115V @ 434mA	
65 VA	TL99-0650-012	2 x 115	12V @ 5416mA	6V @ 10832mA	60
	TL99-0650-014		14V @ 4642mA	7V @ 9284mA	
	TL99-0650-018		18V @ 3611mA	9V @ 7222mA	
	TL99-0650-024		24V @ 2708mA	12V @ 5416mA	
	TL99-0650-030		30V @ 2166mA	15V @ 4322mA	
	TL99-0650-036		36V @ 1805mA	18V @ 3610mA	
	TL99-0650-044		44V @ 1477mA	22V @ 2954mA	
	TL99-0650-048		48V @ 1354mA	24V @ 2708mA	
	TL99-0650-230		230V @ 282mA	115V @ 564mA	
85 VA	TL99-0850-012	2 x 115	12V @ 7083mA	6V @ 14166mA	60
	TL99-0850-014		14V @ 6071mA	7V @ 12142mA	
	TL99-0850-018		18V @ 4722mA	9V @ 9444mA	
	TL99-0850-024		24V @ 3541mA	12V @ 7082mA	
	TL99-0850-030		30V @ 2833mA	15V @ 5666mA	
	TL99-0850-036		36V @ 2361mA	18V @ 4722mA	
	TL99-0850-044		44V @ 1931mA	22V @ 3862mA	
	TL99-0850-048		48V @ 1770mA	24V @ 3540mA	
	TL99-0850-230		230V @ 369mA	115V @ 738mA	