



ESCAPSULATED/PCB TRANSFORMERS

E-U SERIES	INPUT VOLTAGE	OUTPUT VOLTAGE (Single or dual)	POWER	WORKING AMBIENT TEMPERATURE	THERMAL CLASS
E20	115V or 230V	4.5V to 48V	0.35VA to 0.6VA	40°C or 70°C	B(130°C) or F(155°C)
E30	115V or 230V	4.5V to 48V	0.5VA to 3.2VA	40°C or 70°C	B(130°C) or F(155°C)
E38	115V or 230V	4.5V to 48V	3.5VA to 6VA	40°C or 70°C	B(130°C) or F(155°C)
E42	115V or 230V	4.5V to 48V	5VA to 6VA	40°C or 70°C	B(130°C) or F(155°C)
E48	115V or 230V	4.5V to 48V	8VA to 12VA	40°C or 70°C	B(130°C) or F(155°C)
E54	115V or 230V	4.5V to 48V	13VA to 16VA	40°C or 70°C	B(130°C) or F(155°C)
E60	115V or 230V	4.5V to 48V	20VA to 35VA	40°C or 70°C	B(130°C) or F(155°C)
U30	2x 115V	2x4.5V to 2x24V	2.4VA to 10VA	40°C or 70°C	B(130°C) or F(155°C)
U39	2x115V	2x4.5V to 2x24V	8.5VA to 30VA	40°C or 70°C	B(130°C) or F(155°C)
CHARACTERISTICS					
EN 61558-2-6 Compliant UL 5085-1-2 Compliant EN 60950 Compliant E3011 Class 2 series UL 94 materials		Double chamber bobbin F class self-extinguish epoxy resin IP00 Short circuit proof to 3.2VA		Vacuum sealed 100% Tested at production CE marking RoHs/Reach compliant	

PRODUCT DESIGN ON DEMAND

OPEN FRAMES / (EI) TRANSFORMERS

S SERIES	INPUT VOLTAGE	OUTPUT VOLTAGE (Single or Dual)	POWER	WORKING AMBIENT TEMPERATURE	THERMAL CLASS
S38	115V or 230V	6V to 48V	3.5VA to 6VA	40°C or 70°C	B(130°C)
S42	115V or 230V	6V to 48V	5VA to 7VA	40°C or 70°C	B(130°C)
S48	115V or 230V	6V to 48V	8VA to 14VA	40°C or 70°C	B(130°C)
S54	115V or 230V	6V to 48V	13VA to 25VA	40°C or 70°C	B(130°C)
S60	115V or 230V	6V to 48V	20VA to 35VA	40°C or 70°C	B(130°C)
S66	115V or 230V	6V to 48V	35VA to 70VA	40°C or 70°C	B(130°C)
S75	115V or 230V	6V to 48V	60VA to 120VA	40°C or 70°C	B(130°C)
S84	115V or 230V	6V to 48V	100VA to 150VA	40°C or 70°C	B(130°C)
S96	115V or 230V	6V to 48V	150VA to 200VA	40°C or 70°C	B(130°C)
CHARACTERISTICS					
EN 61558-1; EN60950 Compliant Double chamber bobbin UL94 materials		F class varnish CE marking RoHs/Reach compliant		<i>PRODUCT DESIGN ON DEMAND</i>	



TOROIDAL TRANSFORMERS

T SERIES	INPUT VOLTAGE	OUTPUT VOLTAGE (Single or Dual)	MAX.POWER	WORKING AMBIENT TEMPERATURE	THERMAL CLASS
T001	115V or 230V	6V to 48V	10VA	40°C	B(130°C)
T003	115V or 230V	6V to 48V	30VA	40°C	B(130°C)
T004	115V or 230V	6V to 48V	40VA	40°C	B(130°C)
T005	115V or 230V	6V to 48V	50VA	40°C	B(130°C)
T007	115V or 230V	6V to 48V	70VA	40°C	B(130°C)
T010	115V or 230V	6V to 48V	100VA	40°C	B(130°C)
T012	115V or 230V	6V to 48V	120VA	40°C	B(130°C)
T015	115V or 230V	6V to 48V	150VA	40°C	B(130°C)
T020	115V or 230V	6V to 48V	200VA	40°C	B(130°C)
T025	115V or 230V	6V to 48V	250VA	40°C	B(130°C)
T030	115V or 230V	6V to 48V	300VA	40°C	B(130°C)
T035	115V or 230V	6V to 48V	350VA	40°C	B(130°C)
T040	115V or 230V	6V to 48V	400VA	40°C	B(130°C)
T050	115V or 230V	6V to 48V	500VA	40°C	B(130°C)
T055	115V or 230V	6V to 48V	550VA	40°C	B(130°C)
T100	115V or 230V	6V to 48V	1000VA	40°C	B(130°C)

CHARACTERISTICS

EN61558-1 Compliant
 UL 5085-1-2 Compliant
 Double isolation wire
 Mounting Kit included

Bigger powers on demand
 Less weight and volume than EI transformers

CUSTOM DESINGS

HIGH FREQUENCY TRANSFORMERS

SERIES SWE	CORE	POWER	DIMENSIONS LxWxH (mm)
13	E13/7/4	1W	16.5x13x10.5
16	E16/8/5	3W	17x17x12.5
20	E20/10/6	82W	22x22x17
25	E25/13/7	20W	25x25x18
30	E30/15/7	33W	32x34x23
32	E32/16/9	56W	32x33x24
42	E42/21/15	220W	45x43x45
42	E42/21/20	280W	45x43x50
55	E55/28/21	280W	56x55x44
55	E55/28/25	691W	56x56x48
65	E65/32/27	1540W	66x66x55
70	E70/33/32	2118W	66x71x58

Theoretical power values calculated by WaAc area product for flyback converter topology, F=66KHz; B=1.6T; other factors like secondary number, skin and proximity effects has not been taking into account. Dimensions for standard horizontal coil former, other shapes available

OTHER SERIES ON DEMAND:

EF; ETD; EP; EPC; ER-ERL; PQ; RM.

PRODUCT DESING ON DEMAND.

Plastic material Self extinguishable UL-94V0
 Synthetic resin varnish class F
 Grade 2 copper wire
 Coil former plastic materials class B or F
 P/S 4KV isolation
 According EN60950; EN 61558-2-16
 Lead free.



SMALL WINDINGS

SERIES	FEATURES
EMI FILTERS	Rated voltage 85-265Vac; Insulation resistance 100Mohm; turns ratio 1:1 \pm 1%; Hi-Pot 2500Vac; Operating temperature 125°C max.; RoHs compliant
COMMON MODE CHOKES	To 10A rating; to 100mH dual choke; 100KH to 3MHz common mode resonance; Low resistance and temperature rise.
POWER INDUCTORS	High current; Tinned leads; Polyolefin shrink tube; Low resistance and temperature
CURRENT TRANSFORMERS	Primary current from 10 to 100A; High working frequency; to 200KHz; safe and reliable galvanic insulation; turns ratio from 1:50 to 1:800; RoHs compliant
PULSE TRANSFORMERS	Excellent magnetic coupling; Working frequency up to 200KHZ; Safe and reliable galvanic insulation; compact size; encapsulated UL 94-VH plastic



POWER UNITS

TY 30 Series, designed by TIYAN with flyback topology, replace directly EI30 traditional transformer, same footprint, less surrounding components, higher efficiency, less weight, regulated output voltage, low standby power, low output ripple.

Change your application without re-design PCB.

SERIES	INPUT VOLTAGE	OUTPUT DC VOLTAGE	MAX.POWER	WORKING AMBIENT TEMPERATURE	THERMAL CLASS
TY 30.03	85V to 265Vac	3.3V to 24V	3W	60°C	B(130°C)
TY 30.05		3.3V to 24V	5W		

Isolation 4KV P/s

Isolation resistance 10Mohm; 500Vdc

RoHs compliant

Overload and short circuit protection

Life time > 50000h at 25°C

Safety according to EN60950; EN61558-2-16; EN60335;

EMC according to EN5022; EN 55014; EN61000-4-X.



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