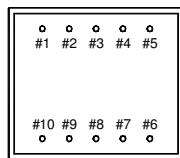


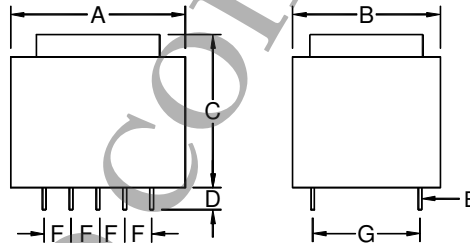


Type EI30 / 12.5

- Power – 1.0/1.2/1.5VA
- Frequency – 50/60 Hz
- Temperature class – Class B (130°C)
- Ambient temperature (ta) – 70°C
- Dielectric strength – 4000Vrms
- Potted under vacuum
- Inherently short-circuit-proof
- Agency approvals
 - TUV / CE: EN61558 / EN60950
 - UL: UL506; UL5085-1 / -2 / -3 (Class 2);
 - C-UL: CSA C22.2 #66 / #66.1 / #66.2 / #66.3
 - CQC: GB19212.1 / GB19212.7



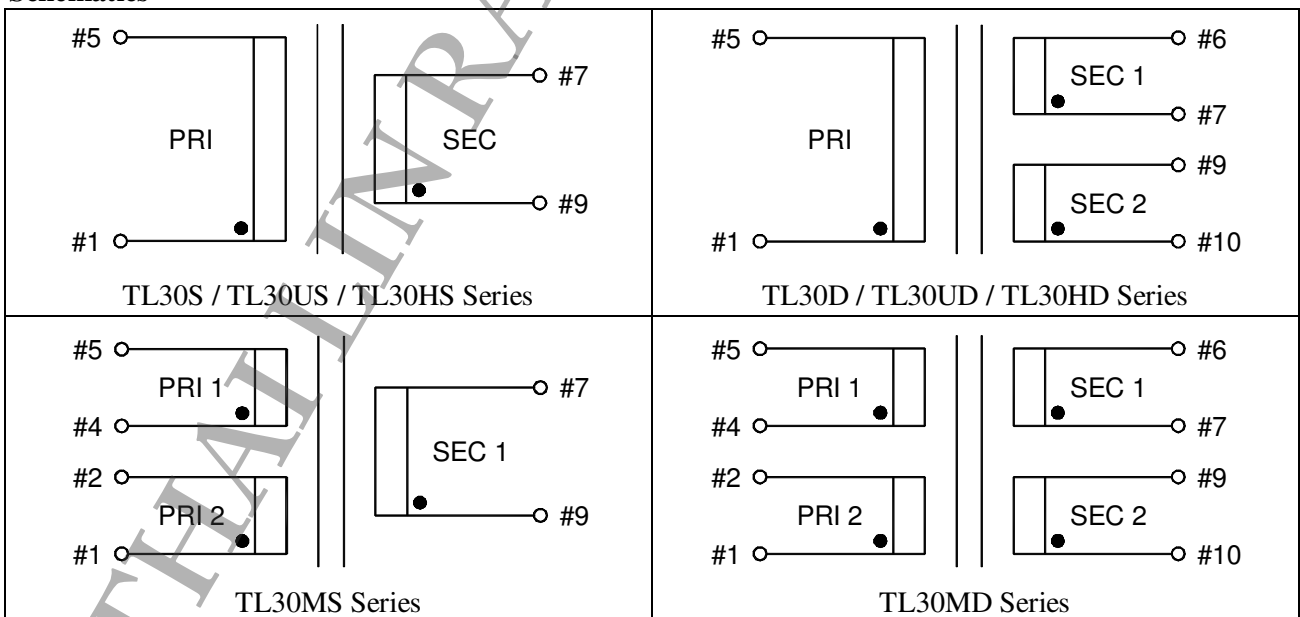
Bottom View



	A	B	C (note 2)	D	E	F	G	Weight (g)
Dimension (mm)	32.3	27.3	21.3	4.0	SQ0.64	5.0	20.0	80
Tolerance (mm)	±0.5	±0.5	±0.5	±1.0	±0.1	±0.2	±0.5	approx.

Note: 1) Unused pins are omitted for standard parts. Unused pins can be provided upon request.
2) For the TL30UD & TL30US series (except the Class 2 items), dimension C should be 22.8±0.5mm.

Schematics



Pins Connection (for dual windings items)	Primary	In Series	Pin 1 – Pin 5 (Pins 2, 4 short)
		In Parallel	Pin 1 – Pin 5 (Pins 1, 4 short; Pins 2, 5 short)
	Secondary	In Series	Pin 7 – Pin 9 (Pins 6, 10 short)
		In Parallel	Pin 7 – Pin 9 (Pins 7, 10 short; Pins 6, 9 short)

Part Number Designation

Single input:

Type of Designation		Suffix
1)	TL30x-yyy-zzz (note 1)	CN = Product with CQC (GB19212.1 + GB19212.7) (N) = Product with TUV (EN61558 + EN60950 + CE) (NC2) = Product with TUV & UL-Class 2 (EN61558 + EN60950 + CE + UL5085-3 + CSA C22.2 #66.1 66.3)
2)	TL30Ux-yyy-zzz (note 1)	w/o suffix = Product with UL (UL506 + CSA C22.2 #66) (C2) = Product with UL-Class 2 (UL5085-3 + CSA C22.2 #66.1 66.3)

Dual input:

Type of Designation		Suffix
1)	TL30Mx-yyy-zzz (note 1)	w/o suffix = Product with TUV & UL (EN61558 + EN60950 + CE + UL5085-1/-2 + CSA C22.2 #66.1 66.2) CN = Product with CQC (GB19212.1 + GB19212.7) (C2) = Product with TUV & UL-Class 2 (EN61558 + EN60950 + CE + UL5085-3 + CSA C22.2 #66.1 66.3)
2)	TL30MD-yyy-zzz (note 1)	(Z) = Product with providing unused Pin #8

Note: (1) x = S: one secondary winding

= D: two secondary windings

yyy = 3 digit numbers indicate 10 times the rated output voltage (V)

zzz = 3 digit numbers indicate the rated output current (mA)

(2) In case of need, please add the appropriate suffixes in the part number when ordering.

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval		
		Part Number	Secondary Rating		Part Number	Secondary Rating					
			(V)	(mA)		(V)	(mA)				
1.0VA	230	* TL30S-060-167	6	167	* TL30D-060-083	2 x 6	83	70	* UL5085-3 C-UL TUV CE CQC		
		* TL30S-072-139	7.2	139	* TL30D-072-069	2 x 7.2	69				
	* TL30S-090-111	9	111	* TL30D-090-056	2 x 9	56					
	* TL30S-100-100	10	100	* TL30D-100-050	2 x 10	50					
	* TL30S-120-083	12	83	TL30D-120-042	2 x 12	42					
		* TL30S-150-067	15	67	TL30D-150-033	2 x 15	33				
		* TL30S-180-056	18	56	TL30D-180-028	2 x 18	28				
		TL30S-240-042	24	42	TL30D-240-021	2 x 24	21				
	115	TL30US-060-167	6	167	TL30UD-060-083	2 x 6	83	70	UL506 C-UL		
		TL30US-072-139	7.2	139	TL30UD-072-069	2 x 7.2	69				
		TL30US-090-111	9	111	TL30UD-090-056	2 x 9	56				
		TL30US-100-100	10	100	TL30UD-100-050	2 x 10	50				
		TL30US-120-083	12	83	TL30UD-120-042	2 x 12	42				
		TL30US-150-067	15	67	TL30UD-150-033	2 x 15	33				
		TL30US-180-056	18	56	TL30UD-180-028	2 x 18	28				
		TL30US-240-042	24	42	TL30UD-240-021	2 x 24	21				
	115	* TL30US-060-167 (C2)	6	167	* TL30UD-060-083 (C2)	2 x 6	83	70	* UL5085-3 C-UL		
		* TL30US-072-139 (C2)	7.2	139	* TL30UD-072-069 (C2)	2 x 7.2	69				
		* TL30US-090-111 (C2)	9	111	* TL30UD-090-056 (C2)	2 x 9	56				
		* TL30US-100-100 (C2)	10	100	* TL30UD-100-050 (C2)	2 x 10	50				
		* TL30US-120-083 (C2)	12	83							
		* TL30US-150-067 (C2)	15	67							
		* TL30US-180-056 (C2)	18	56							
	115 (Parallel) or 230 (Series)	* TL30MS-060-167	6	167	* TL30MD-060-083	2 x 6	83	70	* UL5085-3 UL5085-1/-2 C-UL TUV CE CQC		
		* TL30MS-072-139	7.2	139	* TL30MD-072-069	2 x 7.2	69				
		* TL30MS-090-111	9	111	* TL30MD-090-056	2 x 9	56				
		* TL30MS-100-100	10	100	* TL30MD-100-050	2 x 10	50				
		* TL30MS-120-083	12	83	TL30MD-120-042	2 x 12	42				
		* TL30MS-150-067	15	67	TL30MD-150-033	2 x 15	33				
		* TL30MS-180-056	18	56	TL30MD-180-028	2 x 18	28				
		TL30MS-240-042	24	42	TL30MD-240-021	2 x 24	21				
		TL30HS-060-167	6	167	TL30HD-060-083	2 x 6	83			70	--
		TL30HS-072-139	7.2	139	TL30HD-072-069	2 x 7.2	69				
	TL30HS-090-111	9	111	TL30HD-090-056	2 x 9	56					
	TL30HS-100-100	10	100	TL30HD-100-050	2 x 10	50					
		TL30HS-120-083	12	83	TL30HD-120-042	2 x 12	42				
		TL30HS-150-067	15	67	TL30HD-150-033	2 x 15	33				
		TL30HS-180-056	18	56	TL30HD-180-028	2 x 18	28				
		TL30HS-240-042	24	42	TL30HD-240-021	2 x 24	21				
1.2VA	230	* TL30S-060-200	6	200	* TL30D-060-100	2 x 6	100	70	* UL5085-3 C-UL TUV CE CQC		
		* TL30S-072-167	7.2	167	* TL30D-072-083	2 x 7.2	83				
		* TL30S-090-133	9	133	* TL30D-090-067	2 x 9	67				
		* TL30S-100-120	10	120	* TL30D-100-060	2 x 10	60				
		* TL30S-120-100	12	100	TL30D-120-050	2 x 12	50				
		* TL30S-150-080	15	80	TL30D-150-040	2 x 15	40				
		* TL30S-180-067	18	67	TL30D-180-033	2 x 18	33				
		TL30S-240-050	24	50	TL30D-240-025	2 x 24	25				

Note: Items marked with "*" are approved to UL5085-3 (Class 2) & C-UL: CSA C22.2 No. 66-3-06.

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
1.2VA	115	TL30US-060-200	6	200	TL30UD-060-100	2 x 6	100	70	UL506 C-UL
		TL30US-072-167	7.2	167	TL30UD-072-083	2 x 7.2	83		
		TL30US-090-133	9	133	TL30UD-090-067	2 x 9	67		
		TL30US-100-120	10	120	TL30UD-100-060	2 x 10	60		
		TL30US-120-100	12	100	TL30UD-120-050	2 x 12	50		
		TL30US-150-080	15	80	TL30UD-150-040	2 x 15	40		
	* TL30US-180-067	18	67	TL30UD-180-033	2 x 18	33	70	* UL5085-3 C-UL	
		TL30US-240-050	24	50	TL30UD-240-025	2 x 24			25
		* TL30US-060-200 (C2)	6	200	* TL30UD-060-100 (C2)	2 x 6			100
		* TL30US-072-167 (C2)	7.2	167	* TL30UD-072-083 (C2)	2 x 7.2			83
		* TL30US-090-133 (C2)	9	133	* TL30UD-090-067 (C2)	2 x 9			67
		* TL30US-100-120 (C2)	10	120	* TL30UD-100-060 (C2)	2 x 10			60
115 (Parallel) or 230 (Series)	* TL30MS-060-200	6	200	* TL30MD-060-100	2 x 6	100	70	* UL5085-3 UL5085-1/-2 C-UL TUV CE CQC	
		* TL30MS-072-167	7.2	167	* TL30MD-072-083	2 x 7.2			83
		* TL30MS-090-133	9	133	* TL30MD-090-067	2 x 9			67
		* TL30MS-100-120	10	120	* TL30MD-100-060	2 x 10			60
		* TL30MS-120-100	12	100	TL30MD-120-050	2 x 12			50
		* TL30MS-150-080	15	80	TL30MD-150-040	2 x 15			40
	* TL30MS-180-067	18	67	TL30MD-180-033	2 x 18	33			
	TL30MS-240-050	24	50	TL30MD-240-025	2 x 24	25			
	400	TL30HS-060-200	6	200	TL30HD-060-100	2 x 6	100	70	--
		TL30HS-072-167	7.2	167	TL30HD-072-083	2 x 7.2	83		
		TL30HS-090-133	9	133	TL30HD-090-067	2 x 9	67		
		TL30HS-100-120	10	120	TL30HD-100-060	2 x 10	60		
TL30HS-120-100		12	100	TL30HD-120-050	2 x 12	50			
TL30HS-150-080		15	80	TL30HD-150-040	2 x 15	40			
TL30HS-180-067	18	67	TL30HD-180-033	2 x 18	33				
TL30HS-240-050	24	50	TL30HD-240-025	2 x 24	25				
1.5VA	230	* TL30S-060-250	6	250	* TL30D-060-125	2 x 6	125	70	* UL5085-3 C-UL TUV CE CQC
		* TL30S-072-208	7.2	208	* TL30D-072-104	2 x 7.2	104		
		* TL30S-090-167	9	167	* TL30D-090-083	2 x 9	83		
		* TL30S-100-150	10	150	TL30D-100-075	2 x 10	75		
		* TL30S-120-125	12	125	TL30D-120-062	2 x 12	62		
		* TL30S-150-100	15	100	TL30D-150-050	2 x 15	50		
	* TL30S-180-083	18	83	TL30D-180-042	2 x 18	42			
	TL30S-240-062	24	62	TL30D-240-031	2 x 24	31			
	115	TL30US-060-250	6	250	TL30UD-060-125	2 x 6	125	70	UL506 C-UL
		TL30US-072-208	7.2	208	TL30UD-072-104	2 x 7.2	104		
		TL30US-090-167	9	167	TL30UD-090-083	2 x 9	83		
		TL30US-100-150	10	150	TL30UD-100-075	2 x 10	75		
TL30US-120-125		12	125	TL30UD-120-062	2 x 12	62			
TL30US-150-100		15	100	TL30UD-150-050	2 x 15	50			
TL30US-180-083	18	83	TL30UD-180-042	2 x 18	42				
TL30US-240-062	24	62	TL30UD-240-031	2 x 24	31				

Note: Items marked with "*" are approved to UL5085-3 (Class 2) & C-UL: CSA C22.2 No. 66-3-06.

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
1.5VA	115	* TL30US-060-250 (C2)	6	250	* TL30UD-060-125 (C2)	2 x 6	125	70	* UL5085-3 C-UL
		* TL30US-072-208 (C2)	7.2	208	* TL30UD-072-104 (C2)	2 x 7.2	104		
		* TL30US-090-167 (C2)	9	167	* TL30UD-090-083 (C2)	2 x 9	83		
		* TL30US-100-150 (C2)	10	150					
		* TL30US-120-125 (C2)	12	125					
		* TL30US-150-100 (C2)	15	100					
	* TL30US-180-083 (C2)	18	83						
	115 (Parallel) or 230 (Series)	* TL30MS-060-250	6	250	* TL30MD-060-125	2 x 6	125	70	* UL5085-3 UL5085-1/-2 C-UL TUV CE CQC
		* TL30MS-072-208	7.2	208	* TL30MD-072-104	2 x 7.2	104		
* TL30MS-090-167		9	167	* TL30MD-090-083	2 x 9	83			
* TL30MS-100-150		10	150	TL30MD-100-075	2 x 10	75			
* TL30MS-120-125		12	125	TL30MD-120-062	2 x 12	62			
* TL30MS-150-100		15	100	TL30MD-150-050	2 x 15	50			
* TL30MS-180-083		18	83	TL30MD-180-042	2 x 18	42			
TL30MS-240-062	24	62	TL30MD-240-031	2 x 24	31				
400	TL30HS-060-250	6	250	TL30HD-060-125	2 x 6	125	70	--	
	TL30HS-072-208	7.2	208	TL30HD-072-104	2 x 7.2	104			
	TL30HS-090-167	9	167	TL30HD-090-083	2 x 9	83			
	TL30HS-100-150	10	150	TL30HD-100-075	2 x 10	75			
	TL30HS-120-125	12	125	TL30HD-120-062	2 x 12	62			
	TL30HS-150-100	15	100	TL30HD-150-050	2 x 15	50			
	TL30HS-180-083	18	83	TL30HD-180-042	2 x 18	42			
	TL30HS-240-062	24	62	TL30HD-240-031	2 x 24	31			

Note: Items marked with "*" are approved to UL5085-3 (Class 2) & C-UL: CSA C22.2 No. 66-3-06.