

Series LAC-TLAC

Hi Reliability Isolated Regulated AC-DC Linear Modules

Typical Characteristics

Test Conditions: 25° C ambient

Input Voltage: 105-125 VAC

Input Frequency: 50-440 Hz

Line/Load Regulation: Consult chart

Output Voltage Tolerance: $\pm 1\%$

Operating Temperature: -25° C to +70° C

Output Voltage Temperature Coefficient: 0.02%/°C

Storage Temperature: -55° C. to +85° C

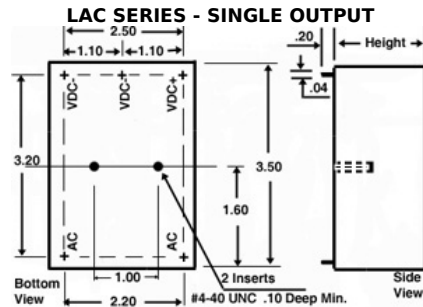
Typical Isolation: 100 megohms

Short Circuit Protection: Continuous

Features

- Terminal Strips available - TLAC
- Low output ripple = 1 to 2 mV RMS
- Encapsulated semiconductors, conservatively rated for maximum reliability
- Excellent voltage regulation
- Excellent load regulation
- Up to 10 watts output power at 70° C ambient
- Typical isolation: 100 megohms
- Single, dual, and triple outputs
- No heat sink required
- No output capacitor required

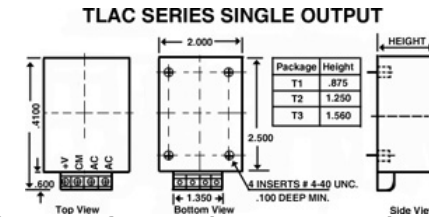
This series of linear AC to DC Power Supplies are available in 46 different models. All single, dual, and triple output models offer excellent line and load regulation while maintaining the output voltage ripple at a minimum. Continuous short circuit protection and isolation are also standard on all models. The convenience of PC mounting, with mounting inserts, allow the use of this encapsulated unit in harsh environments, and the TLAC models offer a terminal strip for easy electrical connection.



Note: The torque for mounting screws must be 3 to 5 In-Lbs

PACKAGE	HEIGHT
L1	.875
L2	1.250
L3	1.560

[Larger Size Drawing](#)



Note: The torque for mounting screws must be 3 to 5 In-Lbs

Bottom View
[Larger Size Drawing](#)

TYPICAL WEIGHT:
L1/T1 - 340 Grams
L2/T2 - 490 Grams
L3/T3 - 605 Grams

SERIES LAC-TLAC SINGLE OUTPUT

Pico Part No.		Output Voltage VDC	Max. Load Current mA	Max. Output Power (watts)	* Out Volt Tolerance (±%)*	V Ld. Reg Load	Line Regulation	Output Voltage Ripple @ Full Load mv rms	Package Number		Height Inch	L Pkg Price (US \$)	T Pkg Price (US \$)
LAC5/500S	TLAC5/500S	5	500	2.5	1.0	0.2	0.05	1	L1	T1	0.875	252.53	308.04
LAC5/1000S	TLAC5/1000S	5	1000	5.0	1.0	0.2	0.05	1	L2	T2	1.250	324.69	380.19
LAC5/2000S	TLAC5/2000S	5	2000	10	1.0	0.2	0.05	1	L3	T3	1.560	441.24	496.74
LAC12/120S	TLAC12/120S	12	120	1.44	1.0	0.1	0.10	1	L1	T1	0.875	255.31	310.81
LAC12/200S	TLAC12/200S	12	200	2.4	1.0	0.1	0.10	1	L2	T2	1.250	274.73	330.24
LAC12/500S	TLAC12/500S	12	500	6.0	1.0	0.1	0.10	1	L3	T3	1.560	291.38	346.89
LAC15/120S	TLAC15/120S	15	120	1.8	1.0	0.1	0.10	1	L1	T1	0.875	208.13	263.63

LAC15/200S	TLAC15/200S	15	200	3.0	1.0	0.1	0.10	1	L2	T2	1.250	249.76	305.26
LAC15/500S	TLAC15/500S	15	500	7.5	1.0	0.1	0.10	1	L3	T3	1.560	313.59	369.09
LAC24/100S	TLAC24/100S	24	100	2.4	1.0	0.1	0.10	1	L1	T1	0.875	246.69	302.49
LAC24/300S	TLAC24/300S	24	300	7.2	1.0	0.1	0.10	1	L3	T3	1.560	302.49	357.99

*Measurements taken at 115VAC-60Hz

SERIES LAC-TLAC DUAL OUTPUT

Pico Part No.		Output Voltage VDC per output	Max. Load Current mA per output	Max. Output Power (watts) per output	Out Volt Tolerance (±%)*	V Ld. Reg Load	Line Regulation	Output Voltage Ripple @ Full Load mv rms	Package Number		Height Inch	L Pkg Price (US \$)	T Pkg Price (US \$)
LAC5/200D	TLAC5/200D	±5	200	1.0	1%	0.1%	0.05%	1	L2	T2	1.250	333.01	388.51
LAC5/300D	TLAC5/300D	±5	300	1.5	1%	0.1%	0.05%	1	L3	T3	1.560	346.89	402.39
LAC12/100D	TLAC12/100D	±12	100	1.2	1%	0.1%	0.02%	1	L1	T1	0.875	248.06	338.56
LAC12/300D	TLAC12/300D	±12	300	3.6	1%	0.1%	0.02%	1	L3	T3	1.560	346.89	402.39
LAC15/100D	TLAC15/100D	±15	100	1.5	1%	0.1%	0.02%	1	L1	T1	0.875	346.89	402.39
LAC15/300D	TLAC15/300D	±15	300	4.5	1%	0.1%	0.02%	1	L3	T3	1.560	413.49	468.99
LAC24/100D	TLAC24/100D	±24	100	2.4	1%	0.2%	0.01%	1	L2	T2	1.250	374.64	430.14
LAC24/200D	TLAC24/200D	±24	200	4.8	1%	0.2%	0.01%	1	L3	T3	1.560	435.69	491.19

*Measurements taken at 115VAC-60Hz

PACKAGE	HEIGHT
L1	.875
L2	1.250
L3	1.560

TLAC SERIES DUAL OUTPUT

Technical drawing of the TLAC Series Dual Output transformer showing top, bottom, and front views with dimensions and a package height table.

Top View: Dimensions 2.500 (width) and 4.10 (height). Mounting holes are spaced 3.50 (center-to-center) and 1.50 (edge-to-center). A 6/32" SCREW is indicated for mounting.

Bottom View: Dimensions 2.000 (width) and 2.500 (height). Mounting holes are spaced 1.500 (center-to-center). A note indicates 4 INSERTS #4-48 UNC. .100 DEEP MIN.

Package Height Table:

PACKAGE	HEIGHT
T1	.875
T2	1.250
T3	1.500

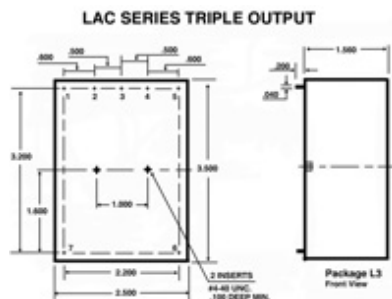
Front View: Shows the transformer profile with a dimension for HEIGHT.

Bottom View
Larger Size Drawing

L1/T1 - 340 Grams
L2/T2 - 490 Grams
L3/T3 - 605 Grams

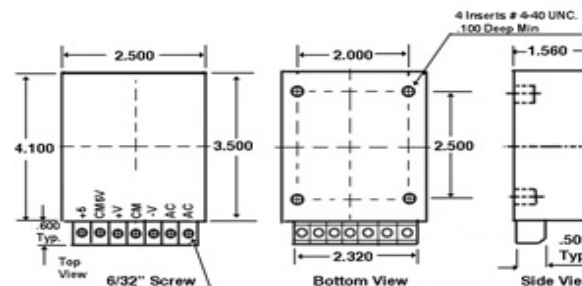
Series LAC-TLAC Triple Output																
Pico Part No.		Main Output Voltage					Auxiliary Output Voltage					Package Number		Ht. Inch	L Pkg Price (US \$)	T Pkg Price (US \$)
		Out Volt. DC Out	Max. Load Current mA	Max. Output Power (watts) Output	V Ld. Reg Load %	Output Voltage Ripple @ Full Load mv rms	Output Voltage DC per Output	Max. Load Current mA per Output	Max. Output Power (watts) per Output	Volt Load Reg Load %	Output Voltage Ripple @ Full Load mv rms					
LAC512A	TLAC512A	5	250	1.25	0.2	1.0	±12	120	1.44	0.1	1.0	L3	T3	1.56	468.99	524.49
LAC512B	TLAC512B	5	500	2.5	0.2	1.0	±12	120	1.44	0.1	1.0	L3	T3	1.56	491.19	546.69
LAC515A	TLAC515A	5	250	1.25	0.2	1.0	±15	100	1.50	0.1	1.0	L3	T3	1.56	474.54	530.04
LAC515B	TLAC515B	5	500	2.5	0.2	1.0	±15	100	1.50	0.1	1.0	L3	T3	1.56	510.62	566.12
		Common Characteristics Main Output Voltage Tolerance ± 0.5% * Main Line Regulation ± 0.2%					Common Characteristics Auxiliary Output Voltage Tolerance ± 0.5% * Auxiliary Line Regulation ± 0.2%					*Measurements taken at 115VAC-60Hz				

PIN NO.	TRIPLE
1	-Output (Aux.)
2	-Output (Main)
3	CM (Aux.)
4	+Output (Main)
5	+Output (Aux.)
6	AC
7	AC



NOTE:
The torque for mounting screws
must be 3 to 5 IN-Lbs
Bottom View
[Larger Size Drawing](#)

TLAC SERIES TRIPLE OUTPUT



NOTE: The torque for mounting screws must be 3 to 5 IN-Lbs
Bottom View
[Larger Size Drawing](#)

TYPICAL WEIGHT -- 605 Grams

For immediate engineering assistance or to place an order:
Call Toll Free: 800-431-1064

PICO Electronics, Inc.

143 Sparks Ave. Pelham, NY 10803
Tel: 914-738-1400
Fax: 914-738-8225