Series LV
DC to DC Converters
Single and Dual Output

Wide Input Voltage (36-80VDC)
Hi Reliability Industrial Grade
Isolated 1000VDC
Fully Regulated - up to 10 Watts
Short Circuit Protected
Terminal Strip Available

PICO's LV Series with wide input voltages are available in 88 different models. They accommodate a 36 to 80 VDC input, and offer both single and dual, regulated outputs. These isolated units will operate over a temperature range of -25° C to 70° C with no heat sink or electrical derating required. They are excellent for applications where the input voltage is highly variable such as in telecommunications systems.

FEATURES

- Excellent line regulation
- ± 1.0% (36-80 VDC)
- Excellent load regulation
- 25% to 100%, ±2%
- Continuous short circuit protection
- Encapsulated semiconductors, conservatively rated for maximum reliability.
- Isolation: 100 megohms at 1000 VDC
- Wide input 36 VDC to 80 VDC

TYPICAL CHARACTERISTICS:

- **Test conditions:** 25° C ambient
- **Input Voltage:** 36-80 VDC
- **Converter frequency:** 200KHz to 1 MHz
- **Operating temperature:** -20° C to +70° C ambient
- **Storage temperature:** -55° to +105° C
- **Output voltage temperature coefficient:** 0.02%/° C
- **Isolation:** 1000 VDC

Series LVA - Single Output - 3 Watts
No Terminal Strip Available

Pico Part Number	Output Voltage (V DC)	Max. Load Current (mA)	Max. Output Power (watts)	EFF.@* Full Load Typical (%)	Output* Voltage Tolerance (±%)*	** Load Regulation 25%-100% Load (±%)*	Line Regulation @ Full Load (±%)*	Output* Voltage Ripple Typical mv p-p	Price (US $)
LVA3.3S	3.3	606	2	61	3	3.5	1.5	40	104.14
LVA5S	5	600	3	64	2	2	1	20	104.14
LVA5.2S	5.2	577	3	64	2	2	1	20	104.14
LVA12S	12	250	3	65	2	2	1	20	104.14
LVA15S	15	200	3	65	2	2	1	15	104.14
LVA24S	24	125	3	66	2	2	1	15	104.14
LVA28S	28	107	3	66	2	2	1	15	104.14
LVA48S	48	62	3	66	2	2	1	15	104.14

*Measurements taken at nominal input voltage.
**10% minimum load required.
Terminal strip not available LVA

Series LVB - Single Output - 5 Watts
Series TLVB Terminal Strip Model****

**** Pico Part Number	Output Voltage (V DC)	Max. Load Current (mA)	Max. Output Power (watts)	EFF.@* Full Load Typical (%)	Output* Voltage Tolerance (±%)*	** Load Regulation 25%-100% Load (±%)*	Line Regulation @ Full Load (±%)*	Output* Voltage Ripple (mv p-p)	**** Price (US $)
LVB3.3S	3.3	1212	4	62	3	3.5	1.5	80	119.23
LVB5S	5	1000	5	68	2	2	1	50	119.23
LVB5.2S	5.2	961	5	68	2	2	1	50	119.23
LVB12S	12	415	5	70	2	2	1	25	119.23
LVB15S	15	330	5	70	2	2	1	25	119.23
LVB24S	24	210	5	72	2	2	1	25	119.23
LVB28S	28	175	5	72	2	2	1	25	119.23
LVB48S	48	105	5	74	2	2	1	25	119.23

*Measurements taken at nominal input voltage.
**10% minimum load required.
****For terminal strip models begin Part Number with letter T. Add $15.00 to prices shown**

Series LVC - Single Output - 8 Watts
Series TLVC Terminal Strip Model****

**** Pico Part Number	Output Voltage (V DC)	Max. Load Current (mA)	Max.*** Output Power (watts)	EFF.@* Full Load Typical (%)	Output* Voltage Tolerance (±%)*	** Load Regulation 25%-100% Load (±%)*	Line Regulation @ Full Load (±%)*	Output* Voltage Ripple (mv p-p)	**** Price (US $)
LVC3.3S	3.3	1515	5	63	3	3.5	1.5	80	134.32
LVC5S	5	1400	7	68	2	2	1	50	134.32
LVC5.2S	5.2	1346	7	68	2	2	1	50	134.32
LVC12S	12	666	8	74	2	2	1	25	134.32
LVC15S	15	533	8	74	2	2	1	25	134.32
LVC24S	24	333	8	74	2	2	1	25	134.32
LVC28S	28	285	8	74	2	2	1	25	134.32
LVC48S	48	166	8	74	2	2	1	25	134.32

*Measurements taken at nominal input voltage.
**10% minimum load required.
***Max. power at nominal input. At 36 volt input derate by approx. 15%
******For terminal strip models begin Part Number with letter T. Add $15.00 to prices shown**

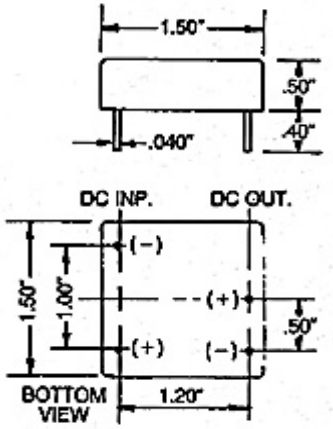
Series LVD - Single Output - 10 Watts
Series TLVD Terminal Strip Model****

**** Pico Part Number	Output Voltage (V DC)	Max. Load Current (mA)	Max.*** Output Power (watts)	EFF.@* Full Load Typical (%)	Output* Voltage Tolerance (±%)*	** Load Regulation 25%-100% Load (±%)*	Line Regulation @ Full Load (±%)*	Output* Voltage Ripple (mv p-p)	**** Price (US $)

LVD3.3S	3.3	2121	7	65	3	3.5	1.5	80	149.42
LVD5S	5	1800	9	70	2	2	1	50	149.42
LVD5.2S	5.2	1730	9	70	2	2	1	50	149.42
LVD12S	12	833	10	74	2	2	1	25	149.42
LVD15S	15	666	10	74	2	2	1	25	149.42
LVD24S	24	416	10	74	2	2	1	25	149.42
LVD28S	28	357	10	74	2	2	1	25	149.42
LVD48S	48	208	10	74	2	2	1	25	149.42

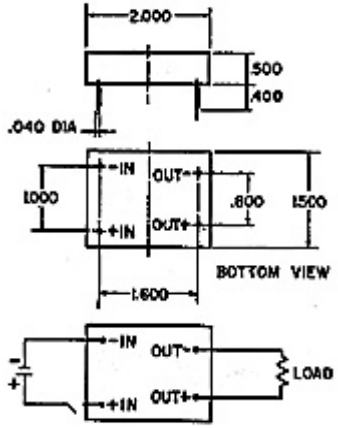
*Measurements taken at nominal input voltage.
10% minimum load required.*Max. power at nominal input. At 36 volt input derate by approx. 15%
****For terminal strip models begin Part Number with letter T. Add $15.00 to prices shown**

Series LVA Single Output / 3 Watts

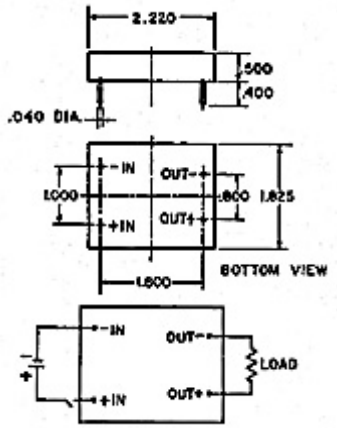
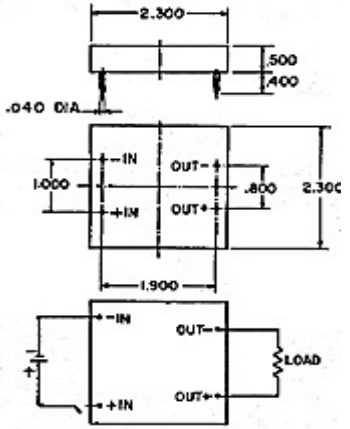


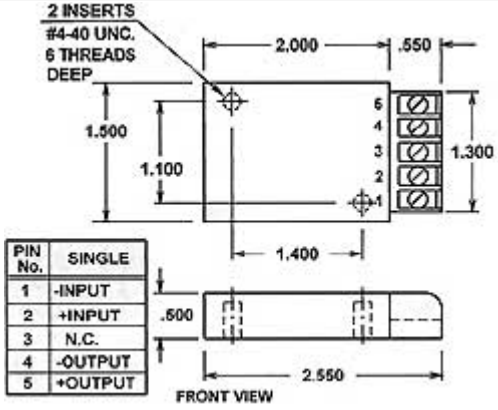
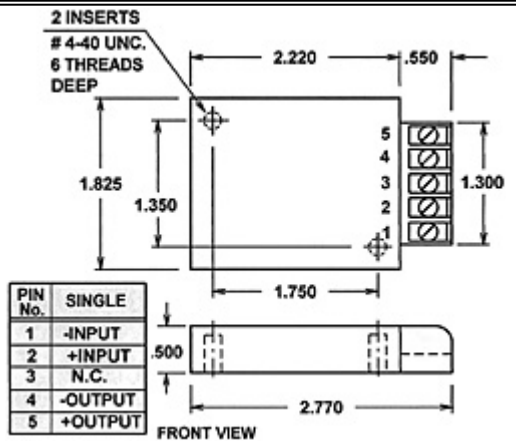
Larger Size Drawing and Schematic

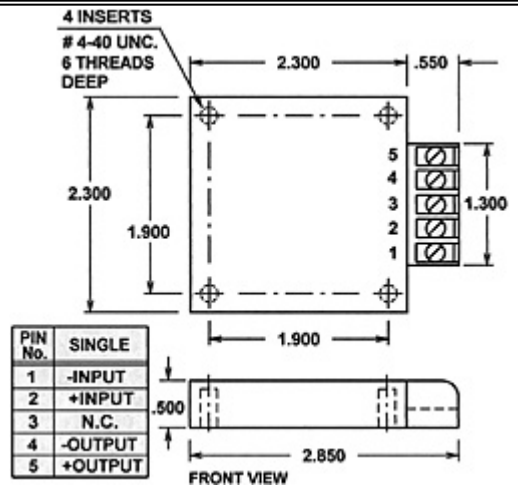
Series LVB Single Output / 5 Watts



Larger Size Drawing and Schematic

Series LVC Single Output / 8 Watts	 Larger Size Drawing and Schematic
Series LVD Single Output / 10 Watts	 Larger Size Drawing and Schematic

Series TLVB Single Output / 5 Watts	 Note: The recommended torque for mounting screws is 3 to 5 In-Lbs. Larger Size Drawing and Schematic
Series TLVC Single Output / 8 Watts	 Note: The recommended torque for mounting screws is 3 to 5 In-Lbs. Larger Size Drawing and Schematic

Series TLVD Single Output / 10 Watts	 Note: The recommended torque for mounting screws is 3 to 5 In-Lbs. Larger Size Drawing and Schematic

Series LVA - Dual Output - 3 Watts
No Terminal Strip Available

Pico Part Number	Output Voltage (V DC)	Max. Load Current Per Out. (mA)	Max. Output Power Per Out (watts)	EFF.@* Full Load Typical (%)	Output Voltage Tolerance (±%)*	** Load Regulation 25%-100% Load (±%)*	Line Regulation @ Full Load (±%)*	Output* Voltage Ripple Typical mv p-p	Price (US $)
LVA5D	±5	300	1.5	60	2	2	1	25	123.76
LVA12D	±12	125	1.5	65	2	2	1	25	123.76
LVA15D	±15	100	1.5	67	2	2	1	25	123.76

*Measurements taken at nominal input voltage.
**10% minimum load required.
Terminal strip not available LVA

Series LVB - Dual Output - 5 Watts
Series TLVB Terminal Strip Model****

**** Pico Part Number	Output Voltage (V DC)	Max. Load Current Per Out (mA)	Max. Output Power Per Out (watts)	EFF.@* Full Load Typical (%)	Output Voltage Tolerance (±%)*	** Load Regulation 25%-100% Load (±%)*	Line Regulation @ Full Load (±%)*	Output* Voltage Ripple (mv p-p)	**** Price (US $)
LVB5D	± 5	500	2.5	68	2	2	1	50	138.85
LVB12D	±12	200	2.5	70	2	2	1	25	138.85
LVB15D	±15	165	2.5	70	2	2	1	25	138.85

*Measurements taken at nominal input voltage.
**10% minimum load required.
****For terminal strip models begin Part Number with letter T. Add $15.00 to prices shown**

Series LVC - Dual Output - 8 Watts
Series TLVC Terminal Strip Model****

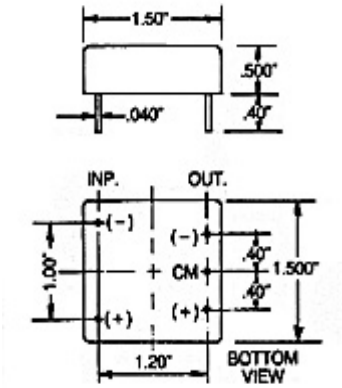
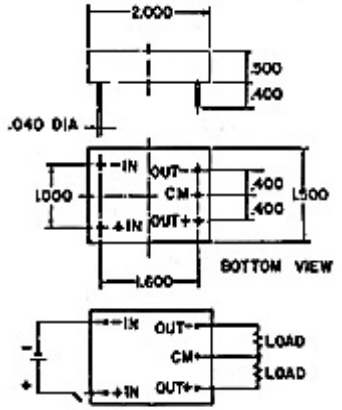
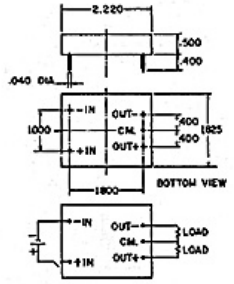
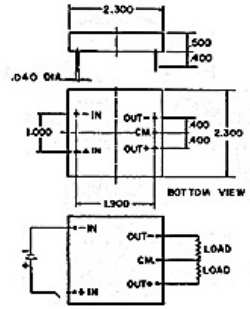
**** Pico Part Number	Output Voltage (V DC)	Max.*** Load Current Per Out (mA)	Max. Output Power Per Out (watts)	EFF.@* Full Load Typical (%)	Output Voltage Tolerance (±%)*	** Load Regulation 25%-100% Load (±%)*	Line Regulation @ Full Load (±%)*	Output* Voltage Ripple (mv p-p)	**** Price (US $)
LVC5D	±5	700	3.5	68	2	2	1	50	153.94
LVC12D	±12	333	4	74	2	2	1	25	153.94
LVC15D	±15	266	4	74	2	2	1	25	153.94

*Measurements taken at nominal input voltage.
**10% minimum load required.
Max. power at nominal input. At 36 volt input derate by approx. 15% BR clear=left>*For terminal strip models begin Part Number with letter T. Add $15.00 to prices shown**

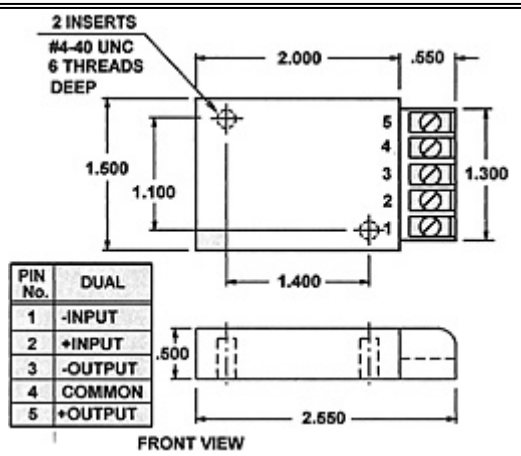
Series LVD - Dual Output - 10 Watts
Series TLVD Terminal Strip Model****

*** * * * Pico Part Number**	**Output Voltage (V DC)**	**Max.*** Load Current Per Out (mA)**	**Max. Output Power Per Out (watts)**	**EFF.@* Full Load Typical (%)**	**Output Voltage Tolerance (±%)***	**** Load Regulation 25%-100% Load (±%)***	**Line Regulation @ Full Load (±%)***	**Output* Voltage Ripple (mv p-p)**	*** * * * Price (US $)**
LVD5D	± 5	900	4.5	70	2	2	1	50	169.04
LVD12D	±12	415	5	74	2	2	1	25	169.04
LVD15D	±15	333	5	74	2	2	1	25	169.04

*Measurements taken at nominal input voltage.
**10% minimum load required.
***Max. power at nominal input. At 36 volt input derate by approx. 15%
******For terminal strip models begin Part Number with letter T. Add $15.00 to prices shown**

Series LVA Dual Output / 3 Watts	 Larger Size Drawing and Schematic
Series LVB Dual Output / 5 Watts	 Larger Size Drawing and Schematic
Series LVC Dual Output / 8 Watts	 Larger Size Drawing and Schematic
Series LVD Dual Output / 10 Watts	 Larger Size Drawing and Schematic

Series TLVB Dual Output / 5 Watts

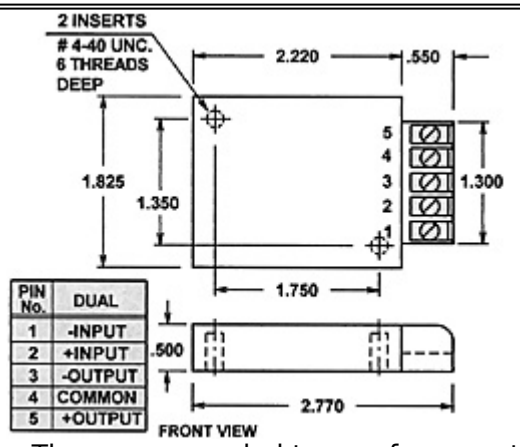


PIN No.	DUAL
1	-INPUT
2	+INPUT
3	-OUTPUT
4	COMMON
5	+OUTPUT

Note: The recommended torque for mounting screws is 3 to 5 In-Lbs.

Larger Size Drawing and Schematic

Series TLVC Dual Output / 8 Watts

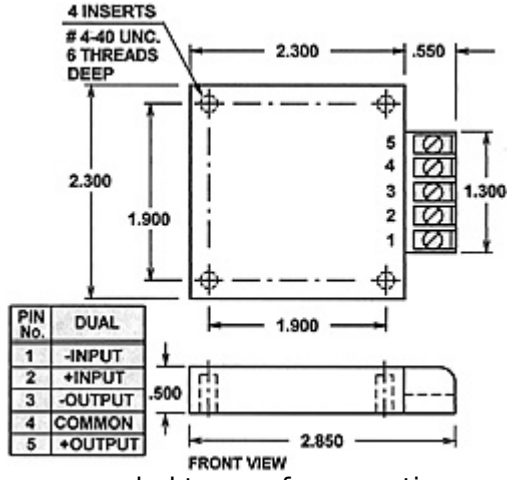


PIN No.	DUAL
1	-INPUT
2	+INPUT
3	-OUTPUT
4	COMMON
5	+OUTPUT

Note: The recommended torque for mounting screws is 3 to 5 In-Lbs.

Larger Size Drawing and Schematic

Series TLVD Dual Output / 10 Watts



PIN No.	DUAL
1	-INPUT
2	+INPUT
3	-OUTPUT
4	COMMON
5	+OUTPUT

Note: The recommended torque for mounting screws is 3 to 5 In-Lbs.

Larger Size Drawing and Schematic

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 or Fax: 914-738-8225

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