SERIES VV

100 TO 900 VDC OUTPUT

Isolated, Single Output, Proportional Modules

100 to 900 Volts DC Output

Positive or Negative VDC Output

Proportional to Input VDC

Up to 10 Watts

High Efficiency

For Special Voltages or Military Upgrades Consult Factory 800-431-1064

This VV Series of single output, isolated proportional DC-DC Converters are manufactured in a miniature encapsulated package. The Series features a Plug-In version for all units. The operating temperature range is -25° C to +70° C.

FEATURES

- Miniature, Plug-In
- Single Output, Isolated, 10 W max. Output Power
- 5V, 9V, 12V, 15, 24V, 28V and 48 Vdc standard input voltages
- 100V to 900 Vdc in 9 standard output voltages
- Vout proportional to Vin over wide voltage rage
- Maximum Load Current capability maintained over entire input range
- High Efficiency: to 84%
- Low Ripple: 2% to 5% Vout
- Operating Temperature: -25° to + 70°C, no heat sink required
- Low Profile: 0.500" Height
- Epoxy Encapsulation

- **TYPICAL CHARACTERISTICS:**
-

Test Conditions: +25° C
Operating Temperature Range: -25° C to +70° C, with no heat sink or electrical derating
Storage Temperature: -55° C to +125° C
Operating Frequency: 8 - 25 KHz
Output Temperature Coefficient (typ.): 0.02%/°C
Safety Note: The high voltage power supplies described in this datasheet generate voltages which can be lethal. They should only be installed and used by personnel who have received the appropriate training and who are fully aware of the hazards that exist.

OPTIONS AVAILABLE

- Per Mil. Std. 883
- Expanded operating temp. (-40° C to +85° C)
- Stabilization Bake (at 125° C ambient)
- Temperature Cycle (between -55° C to +125° C)
- Hi Temperature burn in Cycle
- Vibration, Shock, Humidity, and Altitude
- **Consult factory for your particular requirements**

SERIES VV

PICO Part Number	Input Voltage Range (VDC)		** Maximum Load Current (mA)	5% Minimum Load Current (mA)	Output Voltage Range (VDC)		Max. Output Power (Watts)	Typical Efficiency @ Full Load at Max VIN (%)	* Typical Ripple @ Full Load (%)	Price (US $)
	Min	Max			Min VIN	Max VIN				
5VV0.1	3.5	5	60.0	3.00	47	100	6	74	5	128.29
5VV0.2	3.5	5	30.0	1.50	55	200	6	74	3	140.06
5VV0.3	3.5	5	20.0	1.00	60	300	6	74	3	151.83
5VV0.4	3.5	5	15.0	0.75	65	400	6	74	3	163.60
5VV0.5	3.5	5	12.0	0.60	70	500	6	74	3	175.71
5VV0.6	3.5	5	10.0	0.50	75	600	6	74	3	180.01
5VV0.7	3.5	5	8.6	0.43	78	700	6	74	3	201.18
5VV0.8	3.5	5	7.5	0.38	80	800	6	74	3	215.26
5VV0.9	3.5	5	6.7	0.33	85	900	6	74	3	230.32
9VV0.1	4.0	9	70.0	3.50	30	100	7	74	5	128.29
9VV0.2	4.0	9	35.0	1.75	60	200	7	74	3	140.06
9VV0.3	4.0	9	23.3	1.17	90	300	7	74	3	151.83
9VV0.4	4.0	9	17.5	0.88	120	400	7	74	3	163.60
9VV0.5	4.0	9	14.0	0.70	150	500	7	74	3	175.71
9VV0.6	4.0	9	11.7	0.58	205	600	7	74	3	188.01
9VV0.7	4.0	9	10.0	0.50	240	700	7	74	3	201.18
9VV0.8	4.0	9	8.8	0.44	274	800	7	74	3	215.26
9VV0.9	4.0	9	7.8	0.39	308	900	7	74	3	230.32

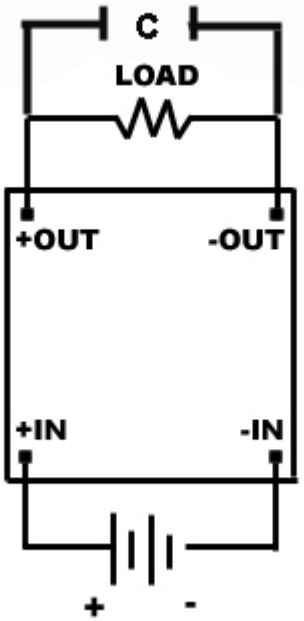
12VV0.1	4.0	12	80.0	4.00	30	100	8	82	5	128.29
12VV0.2	4.0	12	40.0	2.00	60	200	8	82	3	140.06
12VV0.3	4.0	12	26.7	1.33	90	300	8	82	3	151.83
12VV0.4	4.0	12	20.0	1.00	120	400	8	82	3	163.60
12VV0.5	4.0	12	16.0	0.80	150	500	8	84	3	175.71
12VV0.6	4.0	12	13.3	0.67	176	600	8	84	3	188.01
12VV0.7	4.0	12	11.4	0.57	205	700	8	84	3	201.18
12VV0.8	4.0	12	10.0	0.50	235	800	8	84	3	215.26
12VV0.9	4.0	12	8.9	0.44	264	900	8	84	3	230.32
15VV0.1	5.0	15	85.0	4.25	30	100	8.5	82	5	128.29
15VV0.2	5.0	15	42.5	2.13	60	200	8.5	82	3	140.06
15VV0.3	5.0	15	28.3	1.42	90	300	8.5	82	3	151.83
15VV0.4	5.0	15	21.3	1.06	120	400	8.5	83	3	163.60
15VV0.5	5.0	15	17.0	0.85	150	500	8.5	83	3	175.71
15VV0.6	5.0	15	14.2	0.71	176	600	8.5	83	3	180.01
15VV0.7	5.0	15	12.1	0.61	205	700	8.5	83	3	201.18
15VV0.8	5.0	15	10.6	0.53	235	800	8.5	83	3	215.26
15VV0.9	5.0	15	9.4	0.47	264	900	8.5	83	3	230.32
24VV0.1	6.0	24	90.0	4.50	23	100	9	83	5	128.29
24VV0.2	6.0	24	45.0	2.25	48	200	9	83	3	140.06
24VV0.3	6.0	24	30.0	1.50	70	300	9	83	3	151.83
24VV0.4	6.0	24	22.5	1.13	95	400	9	83	3	161.60
24VV0.5	6.0	24	18.0	0.90	100	500	9	83	3	175.71
24VV0.6	6.0	24	15.0	0.75	132	600	9	83	3	188.01
24VV0.7	6.0	24	12.9	0.64	154	700	9	83	3	201.18
24VV0.8	6.0	24	11.3	0.56	176	800	9	83	3	215.26
24VV0.9	6.0	24	10.0	0.50	198	900	9	83	3	230.32
28VV0.1	7.0	28	100.0	5.00	23	100	10	83	5	128.29
28VV0.2	7.0	28	50.0	2.50	48	200	10	83	3	140.06
28VV0.3	7.0	28	33.3	1.67	70	300	10	83	3	151.83
28VV0.4	7.0	28	25.0	1.25	95	400	10	83	3	163.60
28VV0.5	7.0	28	20.0	1.00	120	500	10	83	3	175.71
28VV0.6	7.0	28	16.7	0.83	132	600	10	83	3	188.01
28VV0.7	7.0	28	14.3	0.71	154	700	10	83	3	201.18
28VV0.8	7.0	28	12.5	0.63	176	800	10	83	3	215.26
28VV0.9	7.0	28	11.1	0.56	198	900	10	83	3	230.32
48VV0.1	14.0	48	80.0	4.00	27	100	8	81	5	128.29
48VV0.2	14.0	48	40.0	2.00	50	200	8	81	3	140.06
48VV0.3	14.0	48	26.7	1.33	73	300	8	81	3	151.83
48VV0.4	14.0	48	20.0	1.00	98	400	8	81	3	163.60
48VV0.5	14.0	48	16.0	0.80	140	500	8	84	3	175.71
48VV0.6	14.0	48	13.3	0.67	154	600	8	84	3	188.01
48VV0.7	14.0	48	11.4	0.57	180	700	8	84	3	201.18
48VV0.8	14.0	48	10.0	0.50	205	800	8	84	3	215.26
48VV0.9	14.0	48	8.9	0.44	208	900	8	84	3	230.32

* All units require a 0.1uF, 2KV ceramic capacitor across the output
** Unit is capable of sourcing Maximum Load Current over entire Input Voltage Rage

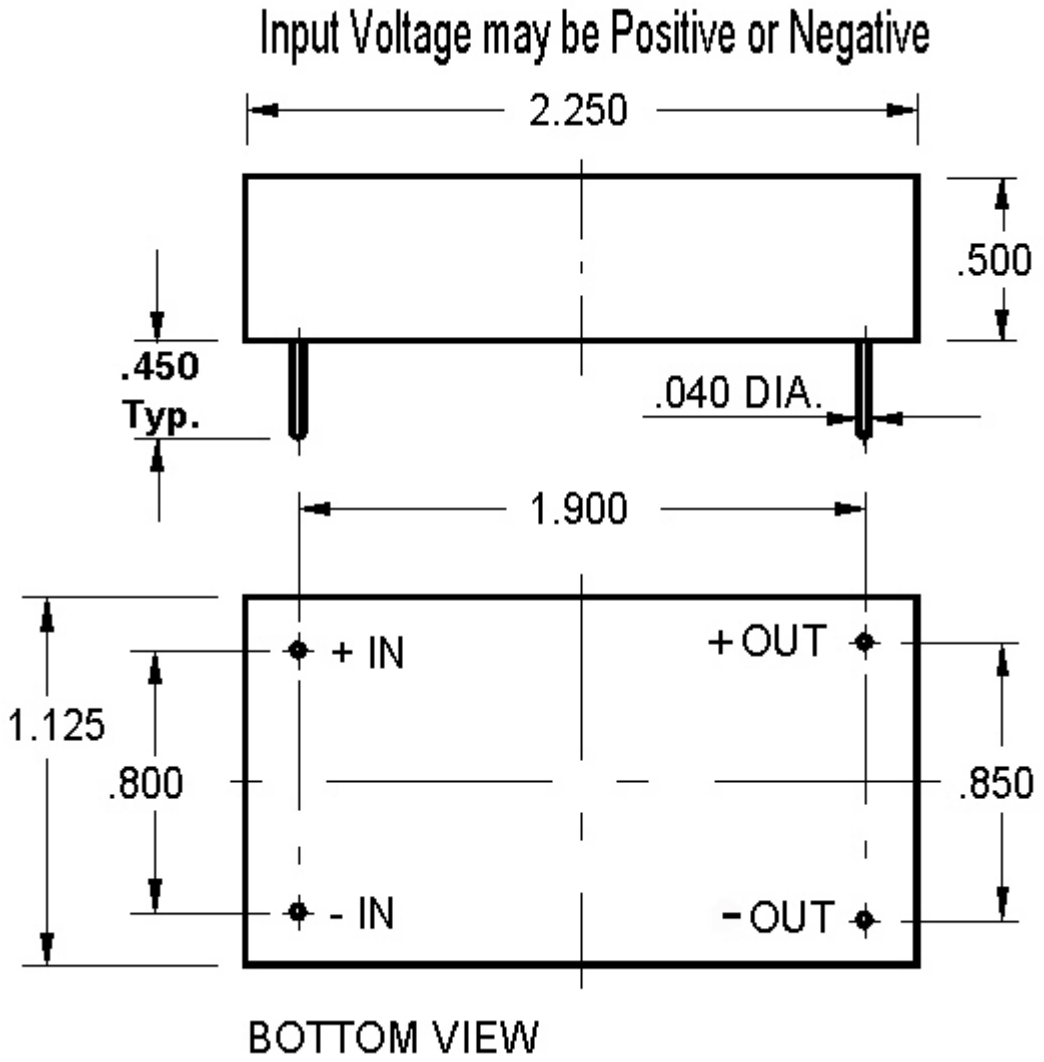
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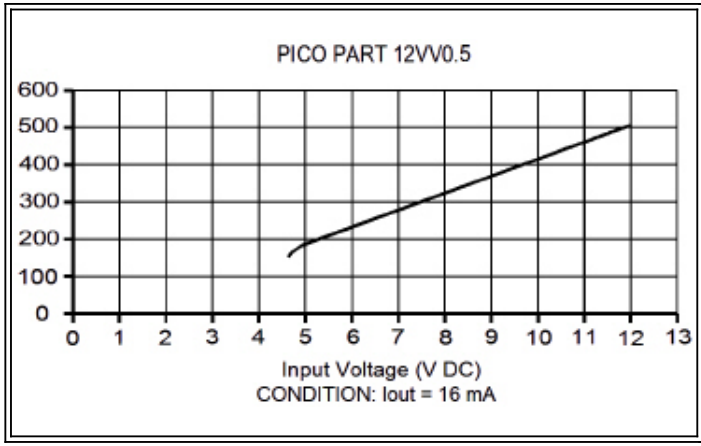
C=0.1uF, 2KV

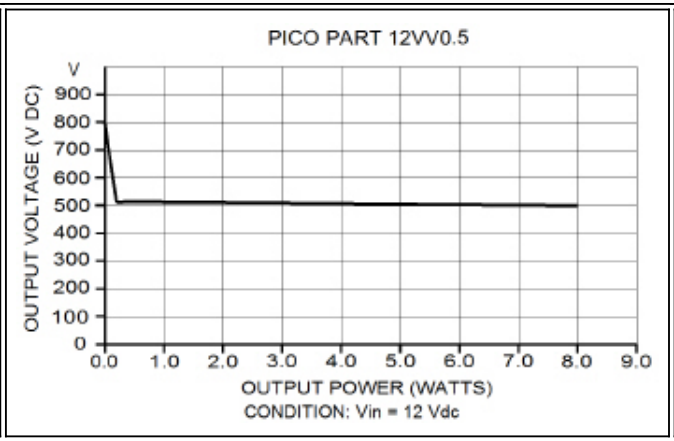


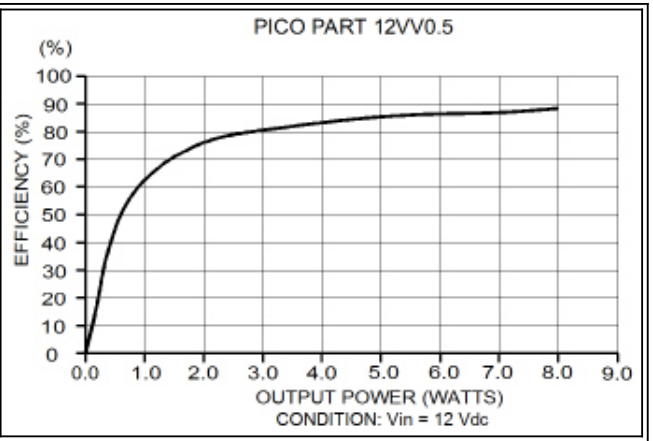
BOTTOM VIEW



Measurements in Inches
Typical Weight: 45 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
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