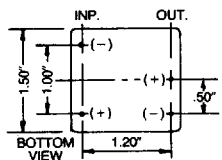
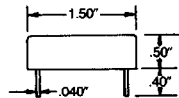
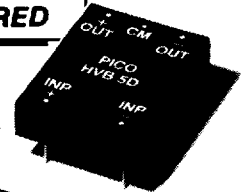
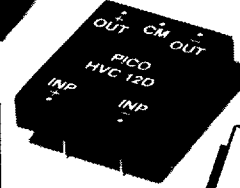


Series HV-Single Output-DC-DC Converters**Hi Reliability****Industrial Grade****Hi Input Voltage (70–170 VDC)****Isolated 1000 VDC****Fully Regulated—up to 15 Watts****Short Circuit Protected****No Heat Sink
or Electrical
Derating Required****NO EXTERNAL
CAPACITORS
REQUIRED****Terminal Strips
Available****Series HVA-Single Output-3 Watts**

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 1-24
HVA5S	5	600	3	65	2	2	0.5	50	69.00
HVA12S	12	250	3	67	2	2	0.5	25	69.00
HVA15S	15	200	3	67	2	2	0.5	25	69.00
HVA24S	24	125	3	68	2	2	0.5	25	69.00
HVA28S	28	107	3	68	2	2	0.5	25	69.00

Series HVB-Single Output-5 Watts

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 1-24
HVB5S	5	1000	5	70	2	2	1	50	79.00
HVB12S	12	415	5	73	2	2	1	25	79.00
HVB15S	15	330	5	73	2	2	1	25	79.00
HVB24S	24	208	5	74	2	2	1	25	79.00
HVB28S	28	175	5	74	2	2	1	25	79.00

Series HVC-Single Output-10 Watts

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 1-24
HVC5S	5	1600	8	69	2	2	1	50	89.00
HVC12S	12	833	10	75	2	2	1	25	89.00
HVC15S	15	660	10	77	2	2	1	25	89.00
HVC24S	24	415	10	77	2	2	1	25	89.00
HVC28S	28	357	10	77	2	2	1	25	89.00

Series HVD-Single Output-15 Watts

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 1-24
HVD5S	5	2000	10	70	2	2	1	50	99.00
HVD12S	12	1250	15	75	2	2	1	25	99.00
HVD15S	15	1000	15	76	2	2	1	25	99.00
HVD24S	24	625	15	76	2	2	1	25	99.00
HVD28S	28	535	15	76	2	2	1	25	99.00

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

PICO Electronics, Inc.

453 N. MacQuesten Pkwy., Mt. Vernon, N.Y. 10552 • 914-699-5514 • FAX 914-699-5565

Series HV-Dual Output-DC-DC Converters

FEATURES:

- Excellent line regulation $\pm 1\%$ (70 VDC-170 VDC)
- Excellent load regulation, from 25% to 100%, $\pm 2\%$
- Continuous short circuit protection
- Encapsulated semiconductors, conservatively rated for maximum reliability
- Isolation: 100 megohms at 1000 VDC
- Wide input 70 VDC to 170 VDC

PICO's HV Series with wide input voltages are available in 32 different models. As switchers they accommodate a 70 to 170 VDC input, and offer both single and dual, regulated outputs. These isolated units will operate over a temperature range of -25°C to $+70^{\circ}\text{C}$ with no heat sink or electrical derating required. They are excellent for applications where a rectified output from a 110 VAC source is available.

Terminal Strips Available

.5" Height

TYPICAL CHARACTERISTICS

Test conditions: 25°C ambient

Input voltage: 70-170 VDC

Converter frequency: 200 KHz to 1 MHz

Operating temperature: -20°C to $+70^{\circ}\text{C}$ ambient

Storage temperature: -55°C to $+105^{\circ}\text{C}$

Output voltage temperature coefficient: $0.02\%/^{\circ}\text{C}$

Isolation: 1000 VDC

Series HVA-Dual Output-3 Watts

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 ($\pm\%$)	LOAD REGULATION 25%-100% LOAD ($\pm\%$)	LINE REGULATION @ FULL LOAD ($\pm\%$)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
HVA5D	± 5	300	1.5	63	2	2	1	50	82.00
HVA12D	± 12	125	1.5	65	2	2	1	25	82.00
HVA15D	± 15	100	1.5	67	2	2	1	25	82.00

Series HVB-Dual Output-5 Watts

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 ($\pm\%$)	LOAD REGULATION 25%-100% LOAD ($\pm\%$)	LINE REGULATION @ FULL LOAD ($\pm\%$)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
HVB5D	± 5	500	2.5	70	2	2	1	50	92.00
HVB12D	± 12	207	2.5	73	2	2	1	25	92.00
HVB15D	± 15	185	2.5	73	2	2	1	25	92.00

Series HVC-Dual Output-10 Watts

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 ($\pm\%$)	LOAD REGULATION 25%-100% LOAD ($\pm\%$)	LINE REGULATION @ FULL LOAD ($\pm\%$)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
HVC5D	± 5	800	4	68	2	2	1	50	102.00
HVC12D	± 12	415	5	75	2	2	1	25	102.00
HVC15D	± 15	335	5	76	2	2	1	25	102.00

Series HVD-Dual Output-15 Watts

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 ($\pm\%$)	LOAD REGULATION 25%-100% LOAD ($\pm\%$)	LINE REGULATION @ FULL LOAD ($\pm\%$)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
HVD5D	± 5	1000	5	69	2	5	1	50	112.00
HVD12D	± 12	625	7.5	75	2	2	1	25	112.00
HVD15D	± 15	500	7.5	76	2	2	1	25	112.00

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