

SERIES HVP
HI VOLTAGE PROGRAMMABLE
PLUG-IN MODULES

0 - 100Vdc to 0 - 6000Vdc

5 Watt Positive and Negative Output Voltages

The HVP Series miniature precision 5 Watt High Voltage Converters are encased in a six side shielded case measuring only 2.55"x1.30"x0.50"(h). The low profile enables them as PCB mountable components in customer applications.

FEATURES:

- Accessible Calibration Trimmer
- 5 Watt Output
- Precision Regulated
- Low Ripple
- Low Temperature Coefficient
- 0 to 100% Output Programmable
- Wide Input Range: 11 to 16 Vdc
- Voltage Monitor and Reference Outputs
- Input Over Voltage Protection
- Output Arc, Over Current and Short Circuit Protection
- Remote Shutdown
- Operating Temperature Range: -25°C to +70°C
- Miniature 6 side shielded low profile case (0.500")
- PCB mountable

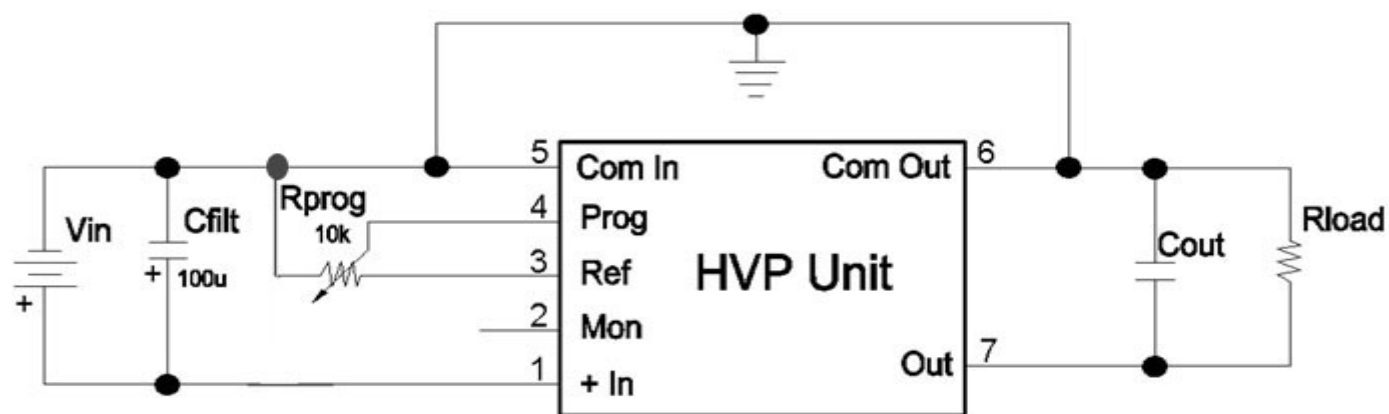
PHYSICAL CHARACTERISTICS:

- Size: 2.55"(w) x 1.3" (d) x 0.5"(h)
- Weight: 50 grams
- Case: 6 side Metal Shield
- Pins: 0.04" diameter, 0.40" length

TYPICAL CHARACTERISTICS:

- **Input Voltage:** 11 to 16Vdc.
- **Input Current:** 150mA max. no load -- 650mA max. full load
- **Input voltage Shutdown:** 18V, latching
- **Programming Voltage:** 0 to 5Vdc -- shdn @ Vprog < 0.25V
- **Internal Programming Voltage Limit:** 5.5 Vdc typical
- **Voltage Monitor:** 0 to 5V for 0 to 100%V out
- **Reference Voltage:** 5Vdc +/- 2%, 1mA max.
- **Linearity:** <1% (10% to 100% Vout)
- **Output Current Limit:** Iout, Max +30% typ.
- **Output Power:** 5W max.
- **Efficiency:** 70% typical
- **Internal Overtemperature Shutdown:** 95°C, latching
- **Line Regulation:** <0.005% Vout
- **Load Regulation:** <0.01% Vout (for 0 to 100% Load change)
- **Output Ripple:** <0.007% Vout, peak - peak
- **Converter Frequency:** 55 to 110kHz
- **Calibration Adjustment Range:** >1%
- **Stability:** <0.005%/hr
- **Temperature Coefficient:** <50ppm/°C
- **Operating Temperature Range:** -25°C to +70°C
- **Storage Temperature Range:** -55°C to +125°C

SERIES HVP						
PICO PART NUMBER	OUTPUT		REGULATION		RIPPLE*** FULL LOAD PEAK - PEAK (%)typical	PRICE (US \$)
	VOLTAGE (V)	CURRENT (mA)	LINE (%)	LOAD (%)		
HVP0.1P	0 to +100	50	<0.005	<0.01	<0.015	285.08
HVP0.1N	0 to -100	50	<0.005	<0.01	<0.015	285.08
HVP0.25P	0 to +250	20	<0.005	<0.01	<0.007	285.08
HVP0.25N	0 to -250	20	<0.005	<0.01	<0.007	285.08
HVP0.5P	0 to +500	10	<0.005	<0.01	<0.007	342.33
HVP0.5N	0 to -500	10	<0.005	<0.01	<0.007	342.33
HVP1P	0 to +1kV	5	<0.005	<0.01	<0.007	342.33



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

[Go to High Voltage DC-DC Converter menu](#)^[1]