# 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

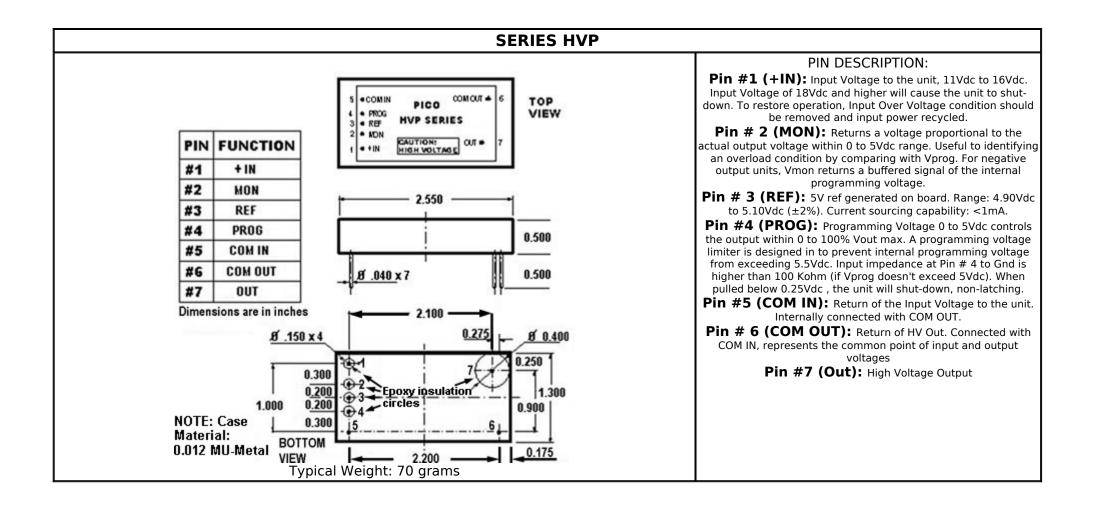
#### **TYPICAL CHARACTERISTICS:**

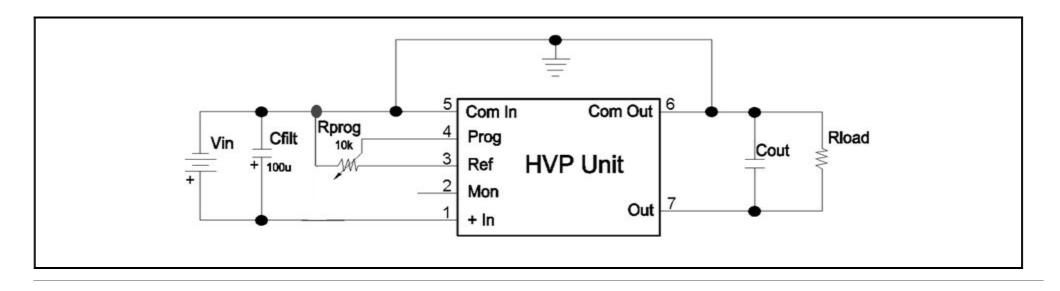
- Input Voltage: 11 to 16Vdc.
- Input Current: 150mA max. no load -- 650mA max. full load
- Input voltage Shutdown: 18V, latching
- **Programming Voltage:** 0 to 5Vdc -- shdn @ Vprog < 0.25V
- Internal Programming Voltage Limit: 5.5 Vdc typical
- Voltage Monitor: 0 to 5V for 0 to 100%V out
- Reference Voltage: 5Vdc +/- 2%, 1mA max.
- Linearity: <1% (10% to 100% Vout)
- Output Current Limit: lout, 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

PICO PART NUMBER	Ουτρυτ		REGULATION		RIPPLE*** FULL LOAD	PRICE
	VOLTAGE (V)	CURRENT (mA)	LINE (%)	LOAD (%)	PEAK - PEAK (%)typical	(US \$)
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
HVP1N	0 to -1kV	5	<0.005	< 0.01	<0.007	342.33
HVP2P	0 to +2kV	2.5	<0.005	<0.01	<0.007	400.72
HVP2N	0 to -2kV	2.5	<0.005	< 0.01	<0.007	400.72
HVP3P	0 to +3kV	1.67	<0.005	< 0.01	<0.007	400.72
HVP3N	0 to -3kV	1.67	<0.005	< 0.01	<0.007	400.72
HVP4P	0 to +4kV	1.25	<0.005	< 0.01	<0.007	400.72
HVP4N	0 to -4kV	1.25	<0.005	< 0.01	<0.007	400.72
HVP5P	0 to +5k	1.00	<0.005	<0.01	<0.015	400.72
HVP5N	0 to -5k	1.00	<0.005	<0.01	<0.015	400.72
HVP6P	0 to +6k	0.84	<0.005	< 0.01	<0.015	452.24
HVP6N	0 to -6k	0.84	< 0.005	< 0.01	< 0.015	452.24

NOTES: All specifications are given under the following conditions: +25°C ambient, 12Vdc Input at Full Load Measurements taken after 1 hour warm-up Load regulation given for 0 to 100% load change For negative output units (suffix N), Vmonitor returns a buffered signal of the internal programming voltage For expanded temperature range or non-standard features, please consult factory

### \*\*\*FOR LOWER RIPPLE APPLICATIONS CONSULT FACTORY: 800-431-1064





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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