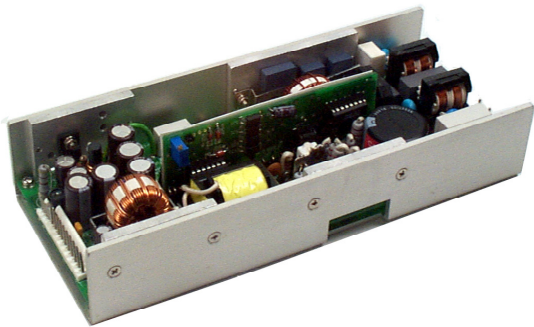


# HiTRON

## UNIVERSAL INPUT HARMONIC CORRECTION AC-DC OPEN FRAME SINGLE & DUAL OUTPUT 150 WATTS INTERNAL SWITCHING POWER SUPPLIES HVP150 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- MEET IEC1000-3-2 HARMONIC CORRECTION
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 CLASS B
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** Typ. 90-264Vac with PFC.  
**Input Connector:** AMP 643495-2 connector or Molex 5273-5A.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** Typ. 20A @230Vac (active).  
**Input Current:** Typ. 2.3A@ 115Vac, 0.76A @230Vac.  
**Dielectric Withstand:** Meet IEC950.  
**EMI:** Meet CISPR PUB.22 Class B.  
**Hold-up Time:** Typ. 30mS @115Vac & 230Vac.  
**Power Fail Signal:** Installed.  
**Power Factor Correction:** Meet Harmonic Correction per IEC1000-3-2 PF typ. 0.97-0.98.  
**Earth Leakage:** Less than 0.5mA@230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Connector:** AMP 640445-0 & 640456-2 or Molex 5273-10A & 6410-2A.  
**Line Regulation:** Typ. 0.1%  
**Load Regulation:** Main VO1 typ.  $\pm 1.0\%$ .  
Aux. VO2 typ.  $\pm 5.0\%$  (stacked-on).  
**Noise & Ripple:** Typ. 1.0% peak to peak.  
**OVP:** Built-in at main VO1 only.  
**Remote Sensing:** Available at VO1.  
**Adjustability:** Available at VO1.  
**DC OK:** Installed.  
**Overload Protection (OLP):** Fully protected against output overload and short circuit. Consult the factory for OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typ. 76%.  
**Switching Frequency:** Fixed freq. at 75K Hz.  
**Circuit Topology:** PWM fixed-frequency forward circuit.  
**Transient Response:** Output voltage returns in less than 3ms following a 25% load change.  
**Safety Standard:** UL1950/EN60950 Class I.  
**Operating Temperature:** 0 to +50°C.  
**Storage Temperature:** -20 to +85°C.  
**Temperature Coefficient:** Typ. 0.04% /°C.  
**Cooling:** Recommended 25 cfm fan cooling for full rating load.  
**Construction:** U-bracket construction format.  
**Power Density:** 2.50Watts / Cubic Inch.

# OUTPUT VOLTAGE/CURRENT RATINGS CHART

## SINGLE OUTPUT

MODEL NO.	MAIN VO1 @★#	
	Typ.	Volt.
HVP150-10	28.0A	5.0V
HVP150-11	12.0A	12.0V
HVP150-12	9.6A	15.0V
HVP150-13	6.0A	24.0V
HVP150-14	5.2A	28.0V
HVP150-15	4.0A	36.0V
HVP150-16	4.5A	32.0V
HVP150-17	3.0A	48.0V
HVP150-190	28.0A	3.3V

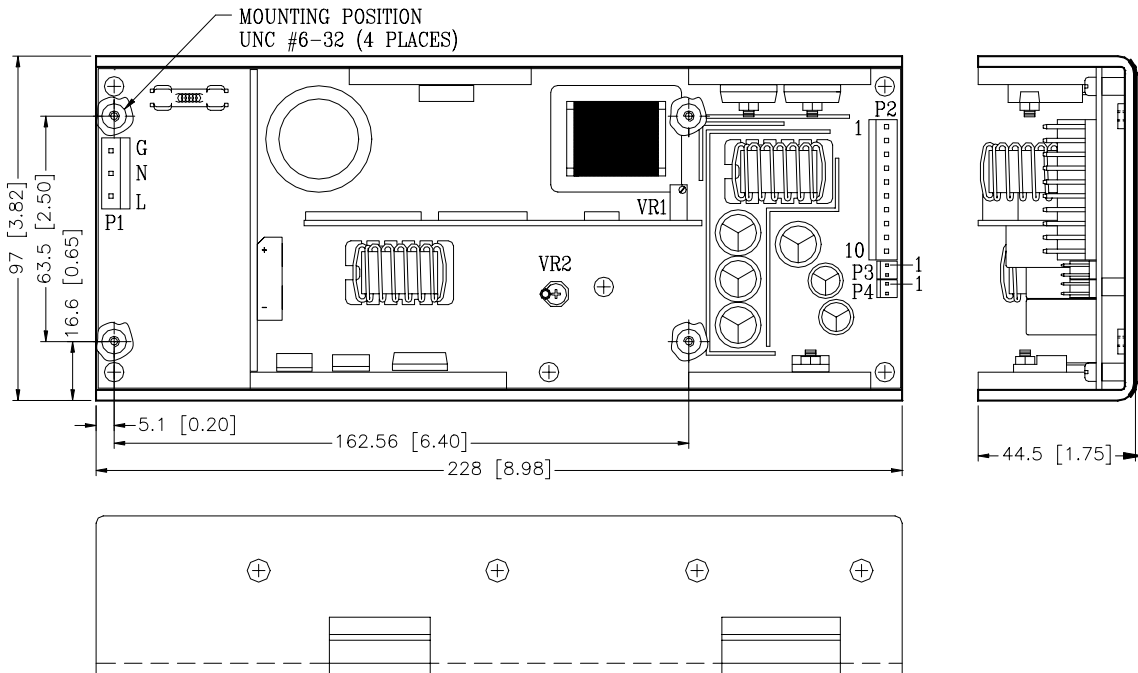
## DUAL OUTPUT

MODEL NO.	MAIN VO1 @★#		AUX. VO2 †■	
	Typ.	Volt.	Typ.	Volt.
HVP150-20	25.0A	+5.0V	2.0A	+5.0V
HVP150-21	24.0A	+5.0V	2.0A	+12.0V
HVP150-22	24.0A	+5.0V	1.6A	+15.0V
HVP150-23	24.0A	+5.0V	1.0A	+24.0V
HVP150-290A	25.0A	+5.0V	2.0A	+3.3V
HVP150-290B	25.0A	+3.3V	2.0A	+5.0V
HVP150-291	24.0A	+3.3V	2.0A	+12.0V
HVP150-292	24.0A	+3.3V	1.6A	+15.0V
HVP150-23	24.0A	+3.3V	1.0A	+24.0V

Symbol: "★" OVP built-in. "@# Adjustable. "†" Stack on main output. "#" Remote sensing. "■" couple filter choke.

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 942.0g (33.2 Oz.)**



## INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE/DUAL OUTPUT			ASSORTED SIGNALS			
	AC-L	AC-N	AC-G	+VO1	+VO2	DC-COM	DC COM	POWER FAIL (Active Low)	VO1 SENSE+	VO1 SENSE-
HVP150-1X	P1-1	P1-2	P1-3	P2-7,8,9,10	-	P2-2,3,4,5,6	P3-1	P3-2	P4-1	P4-2
HVP150-2X	P1-1	P1-2	P1-3	P2-7,8,9,10	P2-1	P2-2,3,4,5,6	P3-1	P3-2	P4-1	P4-2

Mating connector: P1: AMP 640426-5 or Molex 5239-5A.  
 P2: AMP 640427-0 or Molex 5239-10A, 5195-10A.  
 P3 & P4: AMP 640440-2 or Molex 2695-2A.