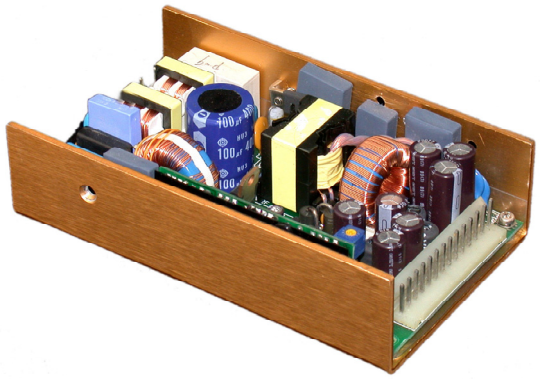
H HiTRON

UNIVERSAL INPUT HARMONIC CORRECTION AC-DC OPEN FRAME SINGLE & MULTI-OUTPUT 105 WATTS INTERNAL SWITCHING POWER SUPPLIES HVP105 SERIES



FEATURES:

- **ACCOMMODATE UNIVERSAL AC SOURCES**
- **MEET IEC 61000-3-2 HARMONIC CORRECTION**
- **MEET UNIVERSAL SAFETY STANDARDS**
- **EMI MEET CISPR EN 55022 & FCC CLASS B**
- **CE MARKING COMPLIANCE**

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac with PFC.
Input Connector: V-M connector.
Input Frequency: 47-63Hz.
Inrush Current: ≤ 30.6A @230Vac.
Input Current: Typ. 1.3A @115Vac, 0.63A @230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI: Meet CISPR EN 55022 & FCC Class B.
Hold-up Time: Typ. 35mS @115Vac & 230Vac.
Power Factor & Harmonic Correction:
Meet IEC 61000-3-2, PF typ. 0.99 @ full load.
Power Fail Signal: Installed.
Earth Leakage: Typ. 0.5mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: V-M connector.
Output Wattage: Typ. 105 watts.
Line Regulation: Typ. 1.0%.
Load Regulation: Main VO1 typ. ±1-2.0%.
Aux. VO2 typ. ±1-3.0% (Magnetic Amp.).
Aux. VO2, VO3 & VO4 typ. ± 3-5.0%(Common choke).
Noise & Ripple: Typ. 1.0% peak to peak.
OVP: Built-in at main output.
Remote Sensing: Available at VO1.
Adjustability: Available at VO1.
Overload Protection (OLP):
Fully protected against output overload and short circuit.
OLP set at about 125-150% rating output wattage.
Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 79-81%.
Switching Frequency: 75K Hz.
Circuit Topology: Fixed frequency forward circuit.
Transient Response: Output voltage returns in less than 3mS following a 25% load change.
Safety Standard: IEC 60950-1/UL 60950-1 Class I.
Power Density: 3.8 Watts / Cubic Inch.
Operating Temperature: 0 to +50°C under 20 cfm forced air cooling for full load.
Storage Temperature: -20 to +85°C.
Temperature Coefficient: Typ. 0.04% /°C.
Cooling: Requested 20 cfm forced air flow for full rating loads.
Construction: U-bracket format.

Note: Due to requests in market and advances in technology, specifications subject to change without notification.

In application

OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT (Under air cooling)

MODEL NO.	MAIN VO1 ★@#	
	Typ.	Volt.
HVP105-19	25.0A	3.3V
HVP105-10	20.0A	5.0V
HVP105-11	8.5A	12.0V
HVP105-12	6.8A	15.0V
HVP105-13	4.2A	24.0V
HVP105-14	3.6A	28.0V
HVP105-15	2.8A	36.0V

DUAL OUTPUT (Under forced air cooling)

MODEL NO.	MAIN VO1 ★@#		AUX. VO2 ▲	
	Typ.	Volt.	Typ.	Volt.
HVP105- 21	10.0A	5.0V	4.0A	12.0V
HVP105- 22	10.0A	5.0V	3.0A	15.0V
HVP105- 23	10.0A	5.0V	2.0A	24.0V
HVP105- 24	4.0A	12.0V	4.0A	12.0V
HVP105- 25	3.4A	15.0V	3.4A	15.0V
HVP105- 291	15.0A	3.3V	4.0A	12.0V
HVP105- 292	15.0A	3.3V	3.0A	15.0V

TRIPLE OUTPUT (Under forced air cooling)

MODEL NO.	MAIN VO1 ★@#		AUX. VO2 ■		AUX. VO3 ■	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HVP105- 30	10.0A	+5.0V	3.4A	+12.0V	0.6A	-12.0V
HVP105- 31	10.0A	+5.0V	3.4A	+12.0V	1.0A	-5.0V
HVP105- 32	10.0A	+5.0V	1.5A	+24.0V	0.8A	-12.0V
HVP105- 33	10.0A	+5.0V	2.5A	+15.0V	0.6A	-15.0V
HVP105- 393	12.0A	+3.3V	3.4A	+12.0V	0.8A	-12.0V
HVP105- 394	12.0A	+3.3V	2.8A	+15.0V	0.6A	-15.0V

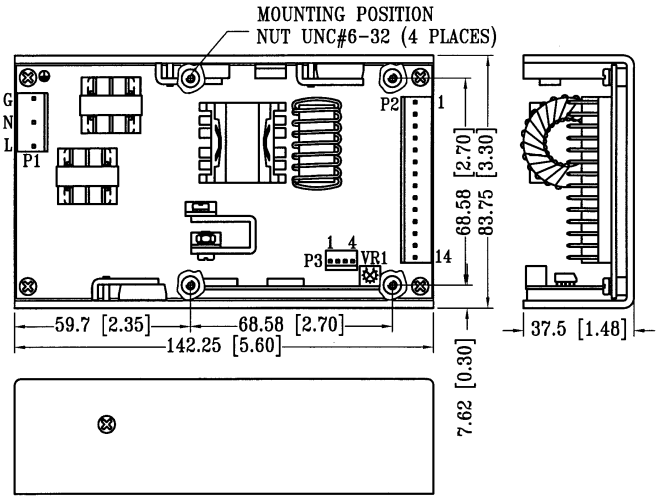
QUAD OUTPUT (Under forced air cooling)

MODEL NO.	MAIN VO1 ★@ #		AUX. VO2 ■		AUX. VO3 ■		AUX. ±VO4 ■	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HVP105- 40	10.0A	+5.0V	3.0A	+12.0V	0.6A	-12.0V	0.6A	12.0V
HVP105- 41	10.0A	+5.0V	3.0A	+12.0V	1.0A	-5.0V	1.0A	5.0V
HVP105- 42	10.0A	+5.0V	1.5A	+24.0V	0.6A	-12.0V	0.6A	12.0V
HVP105- 43	10.0A	+5.0V	2.5A	+15.0V	0.5A	-15.0V	0.5A	12.0V
HVP105- 490	12.0A	+3.3V	3.0A	+12.0V	1.0A	-12.0V	1.0A	5.0V
HVP105- 491	12.0A	+3.3V	2.5A	+15.0V	1.0A	-15.0V	1.0A	5.0V
HVP105- 492	12.0A	+3.3V	3.0A	+12.0V	0.6A	-12.0V	0.6A	12.0V
HVP105- 493	12.0A	+3.3V	2.5A	+15.0V	0.5A	-15.0V	0.5A	12.0V
HVP105- 494	12.0A	+3.3V	1.5A	+24.0V	0.6A	-12.0V	0.6A	12.0V

Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing. "■" Coupled filter inductor. "▲" Magnetic Amplifier Regulator.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 503.0g (17.74 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

	AC INPUT			SINGLE O/P		DUAL O/P			TRIPLE O/P				QUAD O/P						ASSORTED SIGNAL			
ASSIGNMENT	AC -L	AC- N	AC- G	VO1	DC- COM	VO1	VO2	DC- COM	VO1	VO2	VO3	DC- COM	VO1	VO2	VO3	+VO4	-VO4	DC- COM	-S	+S	DC- COM	P.F.S.
CNTR & PIN #	P1- L	P1- N	P1- G	P2-1,2, 3,4,5	P2-6,7 ,8,9,10	P2-1,2,3	P2-8,9	P2-4, 5,6,7	P2-1, 2,3	P2-8,9	P2-11	P2-4, 5,6,7	P2-1, 2,3	P2-8,9	P2-11	P2-13	P2-14	P2-4, 5,6,7	P3-1	P3-2	P3-3	P3-4

Mating connector: Moles 5195 or 5239 series.