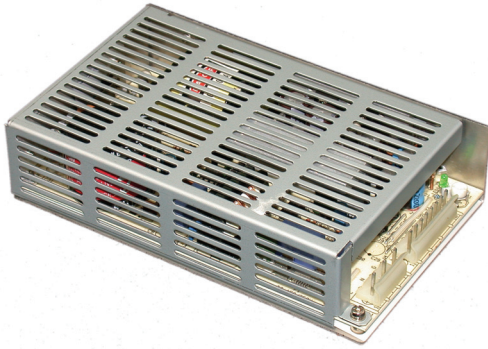


# HiTRON

## UNIVERSAL INPUT AC-DC INTERNAL OPEN FRAME SWITCHING POWER SUPPLIES 72 WATTS SINGLE, DUAL & TRIPLE OUTPUT HVI72 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- OPEN FRAME OR BOX FORMATS
- LOW COST COMMERCIAL GRADE
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 & FCC CLASS B
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** Range 90-264Vac.  
Rating 100 to 240Vac.  
**Input Connector:** B-S or Molex connector or equivalent.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** Typical 25A peak at 230Vac.  
**Input Current:** Typical 2.0A at 115Vac, 0.6 A at 230Vac.  
**Dielectric Withstand:** Meet IEC 60950-1.  
**EMI:** Meet CISPR PUB. 22 & FCC Class B.  
**No Load Operation:** No damage.  
**Overshoot:** No voltage spike while power ON/OFF.  
**Hold-up Time:** Typical 20mS at 115Vac,  
Typical 80mS at 230Vac.  
**Earth Leakage Current:** Less than 0.5mA at 230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Rating Chart.  
**Output Connector:** B-S or Molex connector or equivalent.  
**Output Wattage:** Typical 72 Watts.  
**Line Regulation:** Typical 0.1%.  
**Load Regulation:** Main VO1 typ.  $\pm 1.0\%$ .  
Aux. VO2 typ.  $\pm 3.0\%$ . (stacked on)  
Aux. VO3/VO4 typ.  $\pm 2.0\%$ . (P.R.)  
**Noise & Ripple:** Typical 1.0% peak to peak.  
**OVP:** Built-in at main VO1 (Latch).  
**Adjustability:** Available at main VO1.  
**LED Indicator:** Output indicating.  
**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:** Typical 72%. (various with output voltage)  
**Switching Frequency:** Fixed frequency 45KHz.  
**Circuit Topology:** Fixed Frequency Flyback Circuit.  
**Transient Response:** Output voltage returns in less than  
3mS following a 25% load change.  
**Safety Standard:** Meet UL 60950-1/EN 60950-1 Class I.  
**Operating Temperature:** 0 to +50°C.  
**Storage Temperature:** -20 to +85°C.  
**Temperature Coefficient:** Typical 0.03% /°C.  
**Cooling:** Free air convection cooling.  
**Construction format:** L-Bracket or enclosure box format.  
**Power Density:** 2.0 Watts / Cubic Inch.

NOTE: (1)All measurement are at nominal input, full load and +25°C unless otherwise specifications.

(2)Due to requests in market and advances in technology, specifications subject to change without notification.



In application.

# OUTPUT VOLTAGE / CURRENT RATINGS CHART

## SINGLE OUTPUT

MODEL NO.	MAIN VO1 @★	
	Typ.	Volt.
HVI72-10	14.0A	5.0V
HVI72-11	6.0A	12.0V
HVI72-12	4.8A	15.0V
HVI72-13	3.0A	24.0V
HVI72-14	2.3A	32.0V
HVI72-15	1.6A	48.0V
HVI72-19	14.0A	3.3V

## TRIPLE OUTPUT

MODEL NO.	MAIN VO1 @★		AUX. +VO2 †		AUX. ±VO3 ●	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HVI72-30	7.0A	+5V	2.0A	+12V	1.0A	12V
HVI72-31	7.0A	+5V	2.0A	+12V	1.0A	5V
HVI72-32	7.0A	+5V	1.0A	+24V	1.0A	12V
HVI72-33	7.0A	+5V	1.5A	+15V	1.0A	15V
HVI72-050060-BG	6.0A	+5V	2.0A	+12V	1.0A	-12V

## QUAD OUTPUT

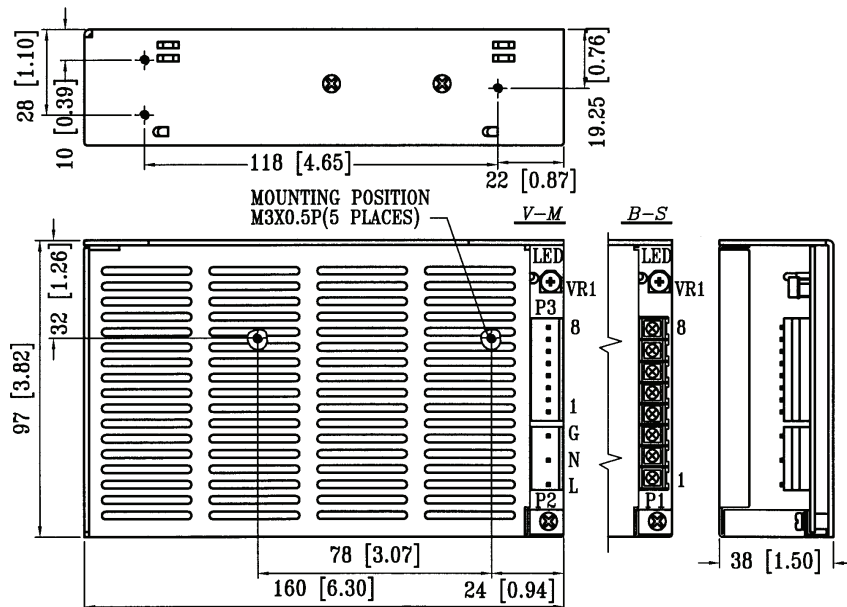
MODEL NO.	MAIN VO1 @★		AUX. +VO2 †		AUX. ±VO3 ●		AUX. -VO4 ●	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HVI72-40	6.5A	+5V	2.0A	+12V	0.5A	12V	0.5A	-12V
HVI72-41	6.5A	+5V	2.0A	+12V	1.0A	5V	1.0A	-5V
HVI72-42	6.5A	+5V	1.0A	+24V	0.5A	12V	0.5A	-12V
HVI72-43	6.5A	+5V	1.6A	+15V	0.5A	15V	0.5A	-15V
HVI72-43A	5.0A	+5V	1.5A	+15V	1.0A	-15V	1.0A	-5V

Symbol: "★" OVP built-in. "@" Adjustable. "†" Stacked on main O/P. "●" Installed with Post Regulator (P.R.).  
 Remark: At least 20% of typical main output current is required to maintain stated regulation.

## MECHANICAL DIMENSIONS: MM [INCHES]

**WEIGHT:** L-B 396.0g (13.97 Oz.)

Box 489.0g (1.25 Oz.)



## INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT		TRIPLE / QUAD OUTPUT				
	AC-LINE	AC-NEUTRAL	AC-GROUND	VO1	DC-COM	VO1	VO2	VO3	VO4	DC-COM
B-SCNTR & PIN#	P1-1	P1-2	P1-3	P1-5	P1-4	P1-8	P1-6	P1-5	P1-4	P1-7
V-MCNTR & PIN#	P2-L	P2-N	P2-G	P3-4,5,6	P3-1,2,3	P3-7,8	P3-3	P3-2	P3-1	P3-4,5

Mating connector: P2 Molex 5195 or 5239 series.