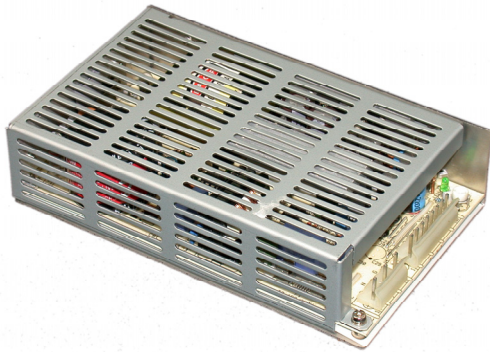


# HiTRON

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



### FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- 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 V-M connectors.

**Input Frequency:** 47-63Hz.

**Inrush Current:** Typ. 25A peak @230Vac.

**Input Current:** Typ. 2.0A @115Vac, 0.6 A @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:** Typ. 20ms @115Vac, 80ms @230Vac.

**Earth Leakage:** Less than 0.5mA @230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.

**Output Current:** See Rating Chart.

**Output Connector:** B-S or V-M connector.

**Output Wattage:** Typ. 72 Watts.

**Line Regulation:** Typ. 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:** Typ. 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:** Typ. 72%.

**Switching Frequency:** Fixed frequency.45K Hz.

**Circuit Topology:** Fixed Frequency Flyback Circuit.

**Transient Response:** Output voltage returns in less than 3mS following a 25% load change.

**Safety Standard:** UL 60950-1/EN 60950-1 Class I.

**Operating Temperature:** 0 to +50°C.

**Storage Temperature:** -20 to +85°C.

**Temperature Coefficient:** Typ. 0.03% /°C.

**Cooling:** Free air convection cooling.

**Construction format:** L-Bracket or enclosure box format.

**Power Density:** 2.0 Watts / Cubic Inch.

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

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

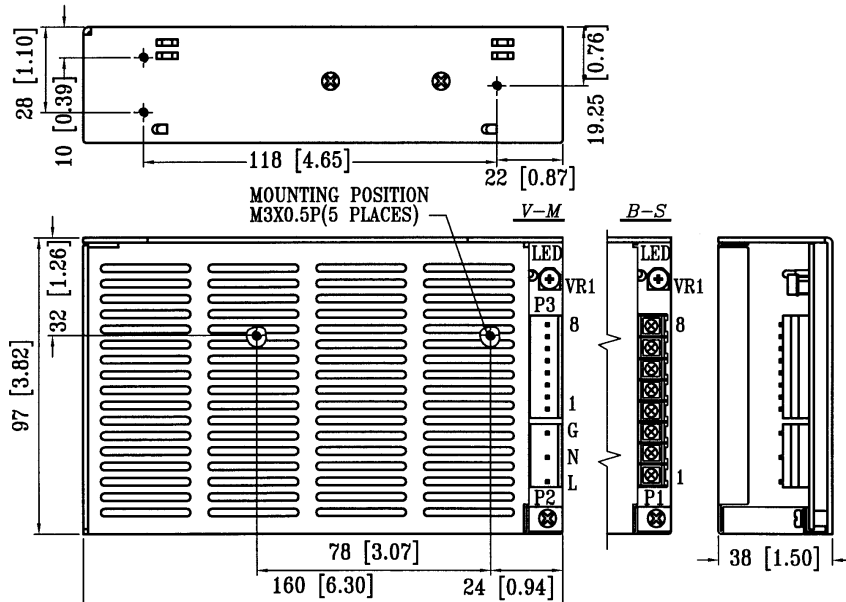
Symbol: "★" OVP built-in. "@" Adjustable. "†" Stacked on main O/P. "●" Installed with Post Regulator (P.R.).

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-S CNTR & PIN#	P1-1	P1-2	P1-3	P1-5	P1-4	P1-8	P1-6	P1-5	P1-4	P1-7
V-M CNTR & 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.