

JASPER ELECTRONICS

06/18/2001

UNIVERSAL INPUT AC TO DC SINGLE & MULTIPLE OUTPUT 72 WATT 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 IEC950.

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.

LED Indicator: Output indicating.

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.

Overload Protection (OLP): Fully protected against output overload and short circuit.
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: UL1950/EN60950 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.



OUTPUT VOLTAGE / CURRENT RATINGS CHART

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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

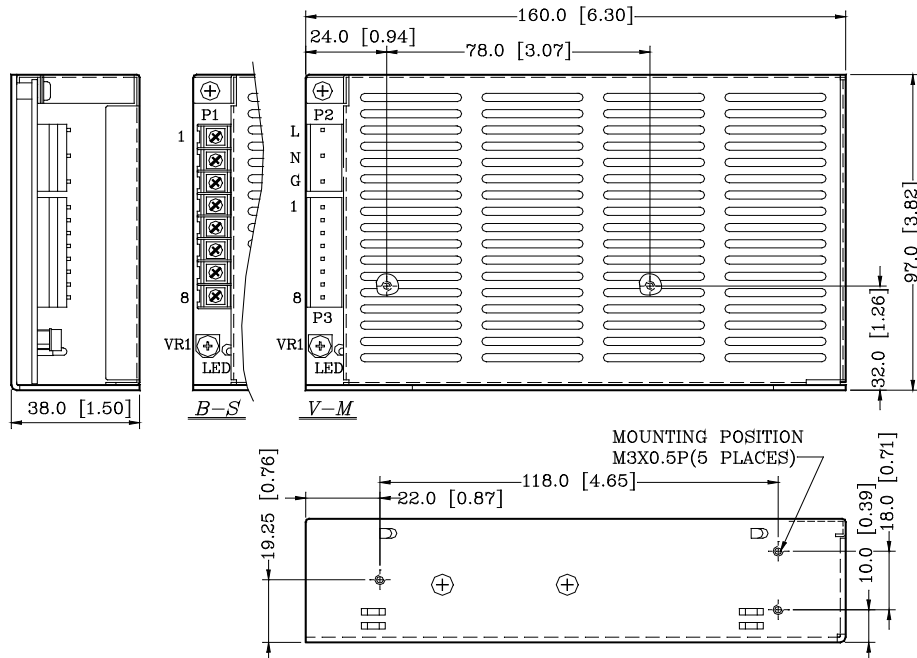
Symbol: "★" OVP built-in. "@" Adjustable. "†" Stacked on main O/P. "●" Installed with Post Regulator (P.R.).

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 (17.25 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#	P2-1.	P2-3.	P2-5.	P3-4,5,6.	P3-1,2,3.	P3-7,8.	P3-3.	P3-2.	P3-1.	P3-4,5.

Mating connector: P1 Barrier-Strip Screw Terminal Block.

P2 Molex 5196 series or equivalent.