

HiTRON

UNIVERSAL INPUT AC-DC PCB OPEN FRAME TRIPLE OUTPUT 6-8 WATTS INTERNAL SWITCHING POWER SUPPLIES HVI06 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- COMPACT PCB OPEN FRAME FORMAT
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 & FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Range Typ. 90-264Vac.

Rating 100 to 240Vac.

Input Connector: Molex 5045 (vertical).

Input Frequency: 47-63Hz.

Inrush Current: ≤30.6A @230Vac.

Input Current: Typ.0.16A @115Vac, 0.08A @ 230Vac.

Dielectric Withstand: Meet IEC950.

EMI: Meet CISPR PUB.22 & FCC Class B.

Hold-up Time: Typ. 20mS @115Vac, 40mS @230Vac.

Earth leakage: Typ. 0.2mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.

Output Current: See Ratings Chart.

Output Wattage: Typ. 6-8 watts.

Output Connector: Molex 5045 (vertical).

Line Regulation: Typ. 0.1%.

Load Regulation: Main VO1 typ. ±1-2.0%.

Aux. VO2 & VO3 typ. ±2% (P.R.).

Noise & Ripple: Typ. 1.0% peak to peak.

OVP: Built-in at all output VO1,VO2 & VO3.

Adjustability: Available at main output VO1.

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

Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 65%.

Switching Frequency: Typ. 55K Hz at 115Vac.

Circuit Topology: Free Running Flyback Circuit.

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

Safety standard: IEC950/UL1950 Class II.

Operating Temperature: 0 to +50°C.

Storage Temperature: -20 to +85°C.

Temperature Coefficient: Typ. 0.04% /°C.

Cooling: Free air convection.

Construction: PCB open frame format.

Power Density: 0.85 Watts / Cubic Inch.



In application

OUTPUT VOLTAGE/CURRENT RATINGS CHART

TRIPLE OUTPUT

MODEL NO.	MAIN VO1@★			AUX. VO2 ★●			AUX. VO3 ★●		
	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.	Max.
HVI06-T050CC	1.0A	+5.0V	2.0A	0.1A	+2.5V	1.0A	0.1A	-2.5V	1.0A
HVI06-T033CC	1.5A	+3.3V	2.5A	0.1A	+2.5V	1.0A	0.1A	-2.5V	1.0A
HVI06-T050II	1.0A	+5.0V	2.0A	0.2A	+12.0V	1.0A	0.1A	-12.0V	1.0A
HVI06-T033II	1.5A	+3.3V	2.5A	0.2A	+12.0V	1.0A	0.1A	-12.0V	1.0A
HVI06-T050DD	1.0A	+5.0V	2.0A	0.3A	+3.3V	1.0A	0.3A	-3.3V	1.0A

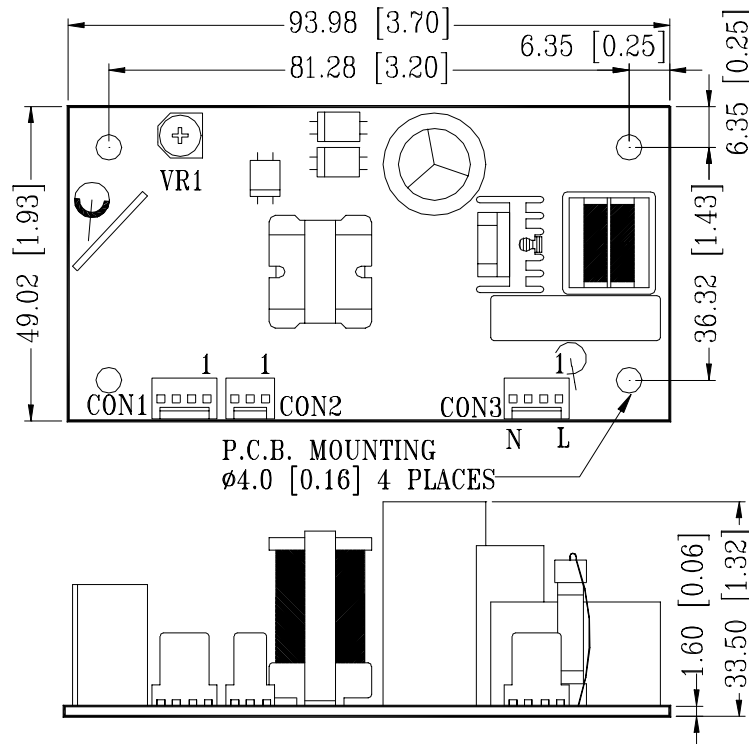
Symbol: "★" OVP built-in. "@" Adjustable. "●" Installed with Post Regulator (P.R.).

Remark (1) At least 20% of typical main output current is required to maintain stated regulations.

(2) Max. current can't be drawn from all output at the same time.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 75.0g (2.65 Oz.)



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INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT		TRIPLE OUTPUT				
	AC-LINE	AC-NEUTRAL	VO1	VO2	VO3	RETURN	DC COM
CNTR & PIN #	CON3-1 (L)	CON3-4 (N)	CON1-1, 4	CON2-3	CON2-1	CON2-2	CON1-2, 3

Mating connector: Molex 5051 series or equivalent