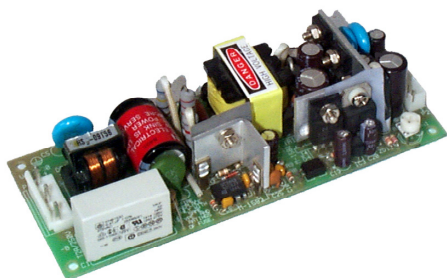


• **HiTRON**

UNIVERSAL INPUT AC-DC PCB OPEN FRAME TRIPLE OUTPUT 17-18 WATTS INTERNAL SWITCHING POWER SUPPLIES HVI17 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 100-240Vac.

Input Connector: Molex 5273 or JST B5P-VH.

Input Frequency: 47-63Hz.

Inrush Current: $\leq 30.6A$ @ 230Vac by thermister.

Input Current: Typ. 0.6mA @ 115Vac, 0.3mA @ 230Vac.

Dielectric Withstand: Meet IEC950.

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

Hold-up Time: Typ. 20mS @ 110Vac, 80mS @ 230Vac.

Earth Leakage: Typ. less than 0.3mA @ 230Vac.

Overload Protection (OLP): Fully protected against output overload and short circuit.
Consult the factory for OLP setting.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.

Output Current: See Ratings Chart.

Output Wattage: Typ. 17-18 Watts.

Output Connector: Molex 5267-NA or JST B8B-XH-A.

Line Regulation: Typ. 0.1%.

Load Regulation: Main VO1: typ. $\pm 1.0-2.0\%$.

Aux. VO2 & VO3: typ. $\pm 2-3.0\%$ (P.R.).

Noise & Ripple: VO1 typ. 2% peak to peak.

VO2 & VO3 typ. 1% peak to peak.

OVP: Built-in main VO1 only.

Adjustability: Available at main VO1 only.

GENERAL SPECIFICATION

Efficiency: Typ. 70%.

Switching Frequency: Fixed-freq. at 38K 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. 0.04% /°C.

Cooling: Free air convection.

Construction: PCB open frame format.

Power Density: 1.82 Watts / Cubic Inch.



OUTPUT VOLTAGE/CURRENT RATINGS CHART

TRIPLE OUTPUT

MODEL NO.	MAIN VO1 @★◇			AUX. VO2 •			AUX. VO3 •		
	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.	Max.
HVI17-30	2.2A	+5V	3.0A	0.3A	+12V	0.6A	0.2A	-12V	0.3A
HVI17-31	2.2A	+5V	3.0A	0.3A	+12V	0.6A	0.2A	-5V	0.3A
HVI17-33	2.2A	+5V	3.0A	0.3A	+15V	0.6A	0.2A	-15V	0.3A

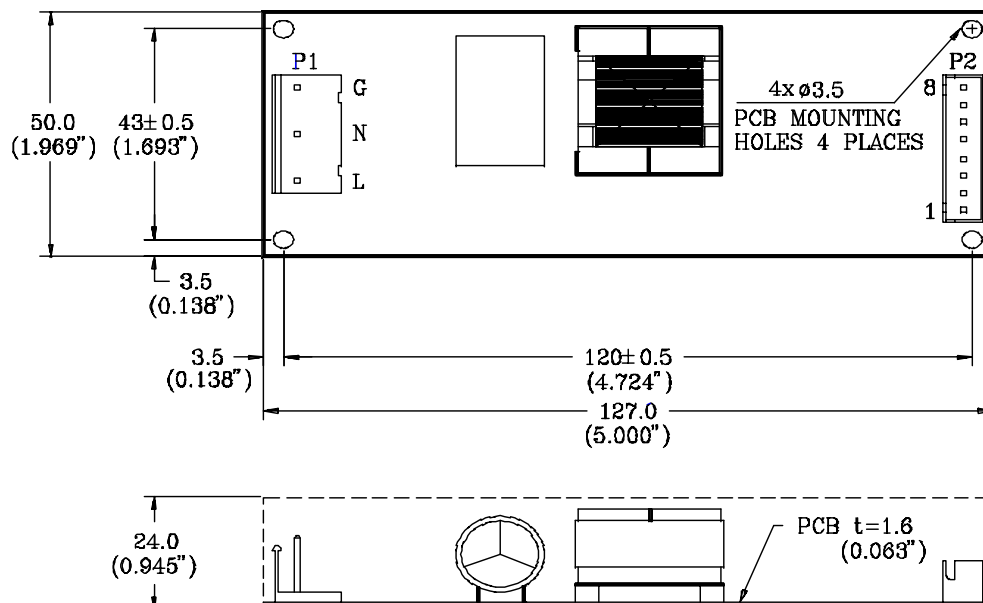
Symbol: "★" OVP built-in. "@" Adjustable. "◇" Floating (or isolated) output. "•" Installed with Post Regulator (P.R.).

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

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

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 150.0g (5.3 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			TRIPLE OUTPUT				
	AC-LINE	AC-NEUTRAL	AC-GROUND	+VO1	-VO1	VO2	VO3	DC COM
CONNECTOR & PIN #	P1-L	P1-N	P1-G	P2-1,2	P2-3,4	P2-5	P2-8	P2-6,7

Mating connector: P1 Molex 5195 or 5239 series/JST VHR-5N.

P2 Molex 5264-N/JST XHP-8 or equivalent.