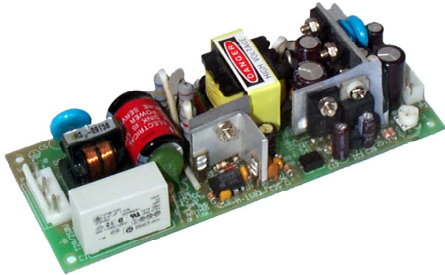


HiTRON

UNIVERSAL INPUT AC-DC PCB OPEN FRAME TRIPLE OUTPUT 17-18 WATTS INTERNAL SWITCHING POWER SUPPLIES HV117 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

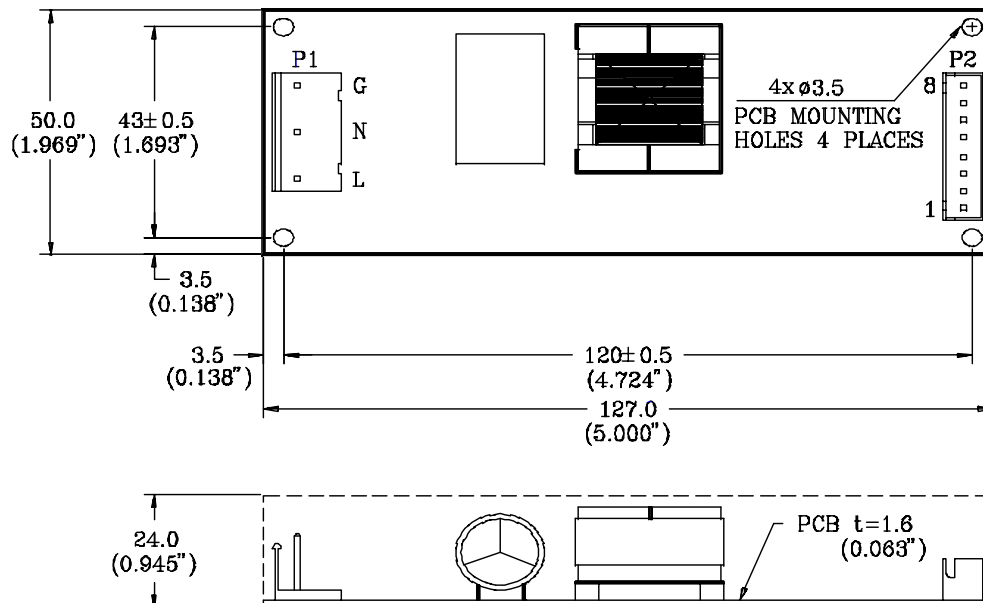
Symbol: "★" OVP built-in. "@" Adjustable. "◇" Floating (or isolated) output. "•" Installed with Post Regulator (P.R.).

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.