



03/26/08

UNIVERSAL INPUT AC-DC OPEN FRAME DUAL OUTPUT 8 WATTS INTERNAL SWITCHING POWER SUPPLIES HVI08 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- COMPACT 4x2x0.92 INCH PCB FORMAT
- DUAL CONVERTERS ARCHITECTURE
- 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: V-M connector.

Input Frequency: 47-63Hz.

Inrush Current: 2.9A rms @ 230Vac 50Hz.

Input Current: Typ. 0.12A@115Vac, 0.066A@230Vac.

Dielectric Withstand: Meet IEC 60950-1.

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

Hold-up Time: Typ. 30.4mS @115Vac, 154.mS @ 230Vac.

Leakage Current: 0.67mA for IEC60950 Touch Current.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.

Output Current: See Ratings Chart.

Output Connector: V-M connector.

Output Wattage: Typ. 8 watts.

Line Regulation: Typ. 0.1%.

Load Regulation: Main VO1 typ. $\pm 0.6\%$.
Aux. VO2 typ. $\pm 0.6\%$.

Total Regulation: Main VO1 typ. $\pm 0.6\%$.
Aux. VO2 typ. $\pm 0.6\%$.

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

OVP: Built-in at VO1 & VO2(Clamp).

Adjustability: Available at VO1 and VO2.

Overload Protection (OLP):

Fully protected against outputs overload and short circuit.

Typ. OLP set at 125-150% of rating output power.

Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 63.7%. (Various with output voltage).

Switching Frequency: 82KHz.

Circuit Topology: Fixed frequency flyback circuit.
Dual converters for floating output.

Transient Response: Output voltage returns in less than
0.1mS following a 25% load change.

Safety Standard: IEC 60950-1 Class I.

Operating Temperature: -40°C to +85 °C under forced
air flow for full load..

Storage Temperature: -40 to +85°C.

Temperature Coefficient: Typ. 0.04%/°C.

Cooling: Free air convection.

Construction: 4"x2"x0.92" PCB format.

Power Density: 1.35Watts / Cubic Inch.

Note: Due to requests in market and advances in technology, specifications subject to change without notification.

OUTPUT VOLTAGE / CURRENT RATINGS CHART

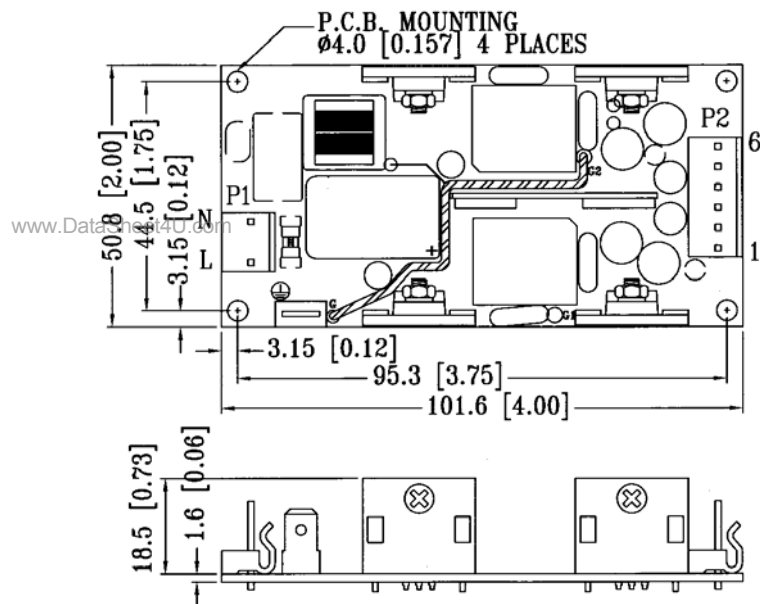
DUAL OUTPUT

MODEL NO.	MAIN VO1 ★			AUX. VO2 ◇		
	Min.	Typ.	Volt.	Min.	Typ.	Volt.
HVI08-D033Q	0A	1.5A	3.3V	0A	0.10A	48V
HVI08-D033M	0A	1.5A	3.3V	0A	0.20A	24V
HVI08-D033K	0A	1.5A	3.3V	0A	0.30A	15V
HVI08-D033I	0A	1.5A	3.3V	0A	0.40A	12V
HVI08-D033E	0A	1.5A	3.3V	0A	0.96A	5V
HVI08-D050Q	0A	1.0A	5.0V	0A	0.10A	48V
HVI08-D050M	0A	1.0A	5.0V	0A	0.20A	24V
HVI08-D050K	0A	1.0A	5.0V	0A	0.30A	15V
HVI08-D050I	0A	1.0A	5.0V	0A	0.40A	12V
HVI08-D050E	0A	1.0A	5.0V	0A	0.96A	5V

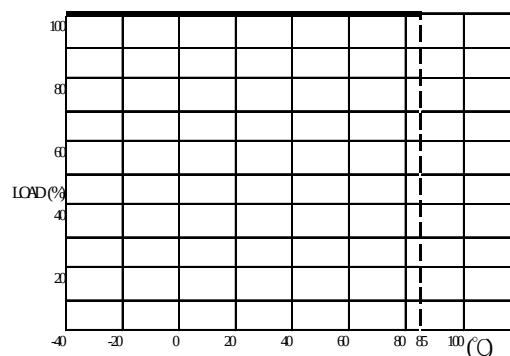
Symbol: "★" OVP built-in. "◇" Floating (or isolated) output

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 100g (3.53Oz.)



DERATING CHART:



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			DUAL OUTPUT			
	AC-L	AC-N	AC-G	VO1+	VO1-	VO2+	VO2-
CNTR/PIN#	P1-3	P1-1	G	P2-1,2	P2-3	P2-5,6	P2-4

Mating connector: P1,2 Molex # 5195 or 5239 series.