

**UNIVERSAL INPUT AC-DC OPEN FRAME SINGLE & MULTIPLE OUTPUT 63 WATTS INTERNAL SWITCHING POWER SUPPLIES HVI63 SERIES**



**FEATURES:**

- ACCOMMODATE UNIVERSAL AC SOURCES
- COMPACT 4"x2"x1"PCB 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:** V-M connector.

**Input Frequency:** 47-63Hz.

**Inrush Current:** ≤12.0A rms @ cold start @230Vac.

**Input Current:** Typ. 0.9 @115Vac, 0.435 @230Vac.

**Dielectric Withstand:** Meet IEC950.

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

**Hold-up Time:** Typ.11.2mS @115Vac, 72.mS @ 230Vac.

**Earth Leakage:** Less than 0.36mA @230Vac.

**OUTPUT SPECIFICATION**

**Output Voltage:** See Ratings Chart.

**Output Current:** See Ratings Chart.

**Output Connector:** V-M connector.

**Output Wattage:** Typ. 62 watts.

**Line Regulation:** Typ. 0.1%.

**Load Regulation:** Main VO1 typ. ±1.0%.

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

**OVP:** Built-in at main output VO1(Latch).

**Adjustability:** Not available.

**Overload Protection (OLP):** Fully protected against outputs overload and short circuit.  
Typ. OLP set at 105-120% of rating output power.  
Consult the factory for OLP setting.

**GENERAL SPECIFICATION**

**Efficiency:** Typ. 80-89.5 %. (Various with output voltage).

**Switching Frequency:** 70K Hz.

**Circuit Topology:** Fixed frequency flyback circuit.

**Transient Response:** Output voltage returns in less than 0.5mS following a 50% load change.

**Safety Standard:** IEC60950 Class I.

**Power Density:** 7.7Watts / Cubic Inch.

**Operating Temperature:** 0 to +50 °C under forced air flow for full load. Derate by 1.3W/°C from 40°C to 50°C.

**Storage Temperature:** -20 to +85°C.

**Temperature Coefficient:** Typ. 0.04%/°C.

**Cooling:** At least 200lfm direct forward air flow is required to achieve full rating power.

**Construction:** 4"x2"x1" PCB format.



## OUTPUT VOLTAGE / CURRENT RATINGS CHART

10/17/2002

### SINGLE OUTPUT

MODEL NO.	MAIN VO1 ★	
	Typ.	Volt.
HVI63-S033100	10.00A	3.3V
HVI63-S050100	10.00A	5.0V
HVI63-S120050	5.00A	12.0V
HVI63-S150040	4.00A	15.0V
HVI63-S240025	2.50A	24.0V
HVI63-S480125	1.25A	48.0V

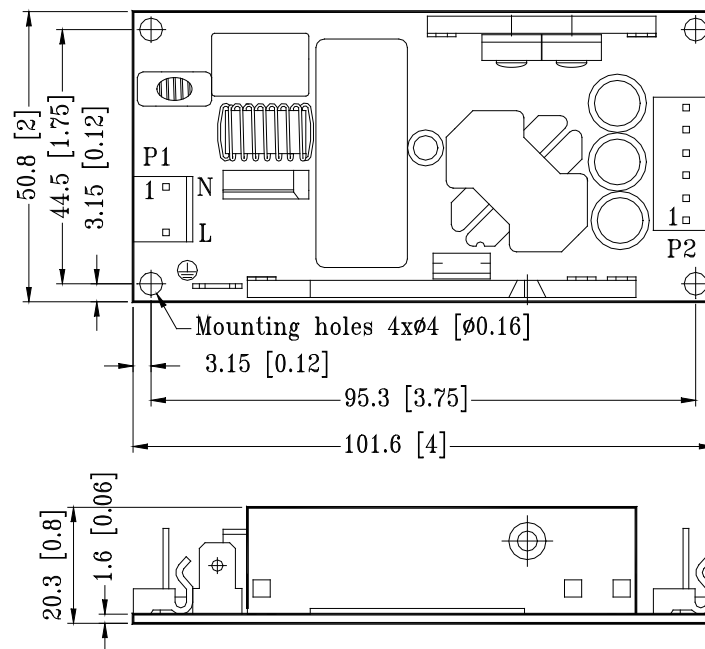
### TRIPLE OUTPUT

MODEL NO.	MAIN +VO1 ★		AUX. +VO2 ■		AUX. -VO3 ■	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HVI63-T050II	8.0A	+5.0V	3.0A	+12.0V	0.5A	-12.0V
HVI63-T050MI	5.0A	+5.0V	1.5A	+24.0V	0.5A	-12.0V
HVI63-T050KK	6.0A	+5.0V	2.5A	+15.0V	0.5A	-15.0V
HVI63-T033EI	8.0A	+3.3V	3.0A	+ 5.0V	0.5A	-12.0V

Symbol: "★" OVP built-in. "■" Couple common choke.

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 121g (4.27 Oz.)**



### INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT		TRIPLE OUTPUT			
	AC-L	AC-N	AC-G	VO1	DC COM	VO1	VO2	VO3	DC COM
CNTR/PIN#	P1-3	P1-1	G	P2-1,2	P2-3,4	P2-1,2	P2-6	P2-5	P2-3,4

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