

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

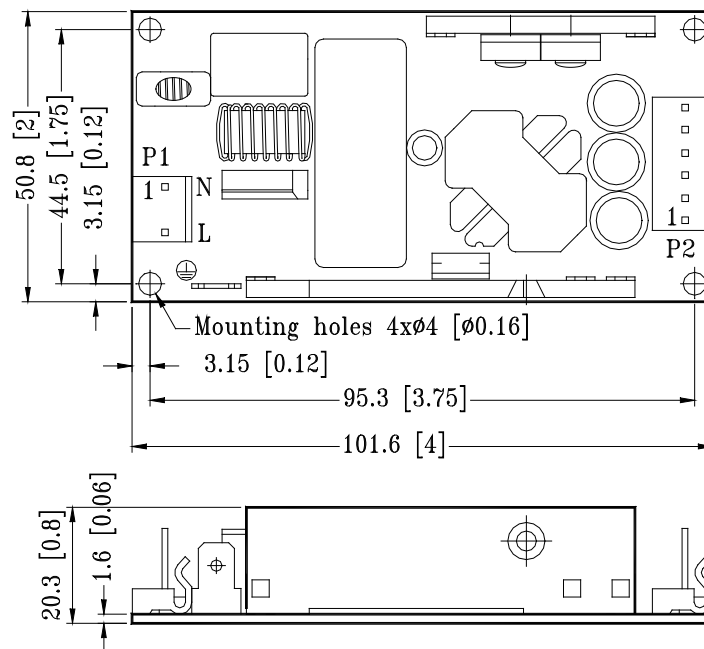
TRIPLE OUTPUT

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.