

HiTRON

UNIVERSAL INPUT AC-DC MULTI-OUTPUT 51 WATTS INTERNAL SWITCHING POWER SUPPLIES HVI51 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- EXTRA LOW PROFILE OPEN FRAME
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 & FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Range 90-264Vac.

Rating 100 to 240Vac.

Input Connector: Molex 5273.

Input Frequency: 47-63Hz.

Inrush Current: $\leq 30.6A$ at 230Vac.

Input Current: Typ. 1.3A @115Vac, 0.65A @230Vac.

Dielectric Withstand: Meet IEC 60950-1.

EMI: Meet CISPR PUB. 22 & FCC B.

Hold-up Time: Typ. 10mS @115Vac, 50mS @230Vac.

Earth Leakage: Less than 0.5mA @ 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.

Output Current: See Ratings Chart.

Output Connector: Molex 5273(vertical).

Output Wattage: Typ. 51 Watts.

Line Regulation: Typ. 0.1%.

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

Aux. VO2 & VO3 typ. $\pm 2.0\%$ (P.R.)

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

OVP: Built-in at main VO1.

Adjustability: Available for VO1.

Overload Protection (OLP):

Fully protected against output overload and short circuit.

OLP set at about 125-150% rating output wattage.

Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 70%.

Switching Frequency: Fixed frequency 70K Hz.

Circuit Topology: Fixed frequency flyback circuit.

Transient Response: Output voltage returns in
less than 3mS following a
25% load change.

Safety Standard: UL 60950-1/EN 60950-1 Class I.

Operating Temperature: 0 to +50°C.

Storage Temperature: -20 to +85°C.

Temperature Coefficient: Typ. 0.03% /°C.

Cooling: Free air convection cooling.

Construction format: L-Bracket format.

Power Density: 2.16Watts /Cubic Inch.

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



In application

OUTPUT VOLTAGE / CURRENT RATINGS CHART

DUAL OUTPUT

MODEL NO.	MAIN VO1 @★		AUX.+VO2 • or -VO3 •	
	Typ.	Volt.	Typ.	Volt.
HVI51-29	9.0A	+3V	1.8A	+12.0V
HVI51-29n	9.0A	+3V	0.9A	-12.0V
HVI51-20	8.0A	+5V	1.0A	-5.0V
HVI51-21	8.0A	+5V	1.5A	+12.0V
HVI51-21n	8.0A	+5V	0.9A	-12.0V
HVI51-22	8.0A	+5V	1.2A	+15.0V
HVI51-22n	8.0A	+5V	0.8A	-15.0V
HVI51-23	8.0A	+5V	0.8A	+24.0V

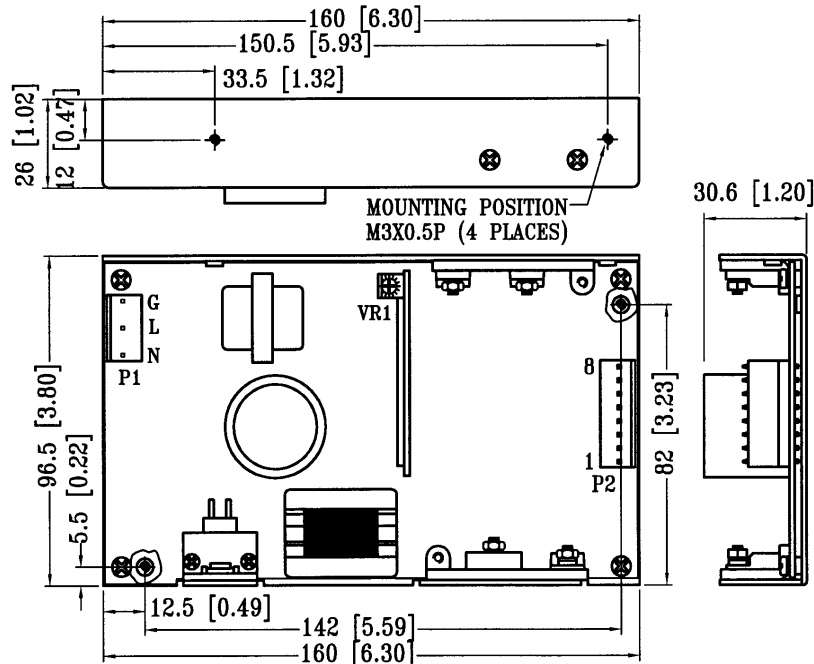
TRIPLE OUTPUT

MODEL NO.	MAIN VO1 @★		AUX. +VO2 • or †		AUX. -VO3 •	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HVI51-39	8.0A	3.0V	1.6A	+12.0V	0.6A	-12.0V
HVI51-30	6.0A	5.0V	1.5A	+12.0V	0.5A	-12.0V
HVI51-31	6.0A	5.0V	1.5A	+12.0V	1.0A	-5.0V
HVI51-32	6.0A	5.0V	0.8A	+24.0V	0.5A	-12.0V
HVI51-33	6.0A	5.0V	1.2A	+15.0V	0.5A	-15.0V

Symbol: "★" OVP built-in. "@" Adjustable. "†" Stacked on main O/P. "•" Installed with Post Regulator (P.R.).

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: L-B 374.0g (13.2 Oz.)



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INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

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

Mating connector: P1 Molex 5195 or 5239 series.

P2 Molex 5195 or 5239 series.