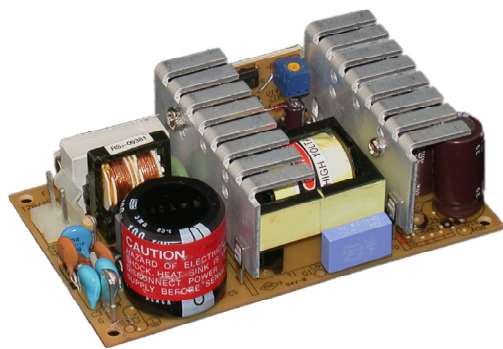


• **HiTRON**

UNIVERSAL INPUT AC-DC PCB OPEN FRAME SINGLE & MULTI-OUTPUT 40-50 WATTS INTERNAL SWITCHING POWER SUPPLIES HVI41 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- SMALL & COMPACT IN SIZE
- 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: Molex V-M.

Input Frequency: 47-63Hz.

Inrush Current: Typ. 25.0A @230Vac.

Input Current: Typ. 0.7-1.2A@115Vac.

0.3-0.4A@230Vac.

Dielectric Withstand: Meet IEC 60950-1.

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

Hold-up Time: Typ. 18mS @115Vac, 90mS @230Vac.

Earth Leakage: Less than 0.3mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.

Output Current: See Ratings Chart.

Output Wattage: Typ. 40 watts with convection or
50 watts with 20 cfm fan cooling.

Output Connector: Molex V-M.

Line Regulation: Typ. 0.1%.

Load Regulation: Main VO1 typ. $\pm 2.0\%$.

Aux. VO2 typ. $\pm 5.0\%$ (stacked on).

VO3 typ. $\pm 3.0\%$ (P.R.).

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

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

Adjustability: Available at main VO1.

Overload Protection (OLP): Fully protected against output
overload and short circuit.

Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 75-85%.

Switching Frequency: 60K Hz.

Circuit Topology: Fixed Frequency Flyback Circuit.

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

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

Operating Temperature: 0 to +50°C convection.

Storage Temperature: -20 to +85°C.

Temperature Coefficient: Typ. 0.04% /°C

Cooling: Free air convection, or with 20 cfm fan cooling.

Construction: PCB open frame format.

Power Density: 3.36-3.79Watts / Cubic Inch.

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



For the details of safety approval, please consult the factory.

OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	MAIN VO1 @★		
	Typ.	Fan-C	Volt.
HVI41-10	8.00A	9.0A	5.0V
HVI41-11	3.30A	4.0A	12.0V
HVI41-12	2.60A	3.3A	15.0V
HVI41-13	1.60A	2.0A	24.0V
HVI41-14	1.28A	1.8A	30.0V
HVI41-16	0.80A	1.0A	48.0V
HVI41-19	8.00A	9.0A	3.3V

DUAL OUTPUT

MODEL NO.	MAIN VO1 @★			AUX. VO2 † or – VO3		
	Typ.	Fan-C	Volt.	Typ.	Fan-C	Volt.
HVI41-20	6.0A	7.0A	5.0V	2.0A	2.5A	5.0V
HVI41-21	4.0A	4.5A	5.0V	2.0A	2.5A	12.0V
HVI41-22	4.0A	4.5A	5.0V	1.5A	2.0A	15.0V
HVI41-23	4.0A	4.5A	5.0V	1.0A	1.5A	24.0V
HVI41-24	1.8A	2.0A	12.0V	1.8A	2.0A	12.0V
HVI41-290	5.0A	6.0A	3.3V	1.8A	2.0A	5.0V

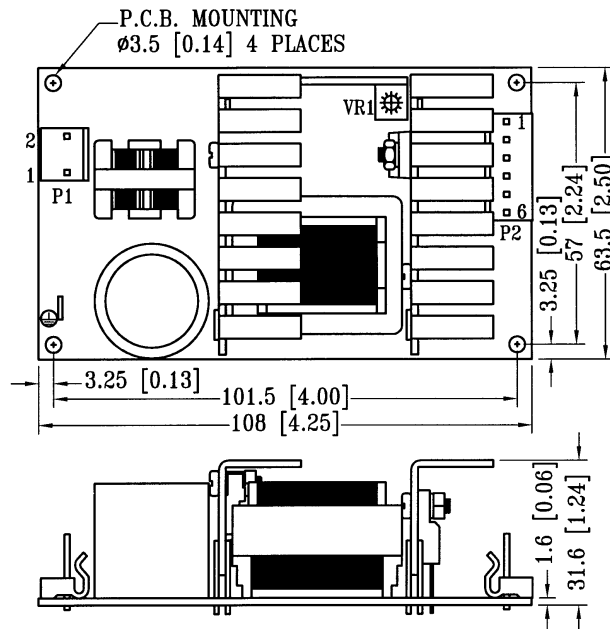
TRIPLE OUTPUT

MODEL NO.	MAIN VO1 @★			AUX. VO2 †			AUX. VO3 •		
	Typ.	Fan-C	Volt.	Typ.	Fan-C	Volt.	Typ.	Fan-C	Volt.
HVI41-30	4.0A	4.5A	+5.0V	2.0A	3.0A	+12V	0.2A	0.5A	-12V
HVI41-31	4.0A	4.5A	+5.0V	2.0A	3.0A	+12V	0.2A	0.5A	-5V
HVI41-32	4.0A	4.5A	+5.0V	0.5A	1.0A	+24V	0.2A	0.5A	-12V
HVI41-33	4.0A	4.5A	+5.0V	1.6A	2.0A	+15V	0.2A	0.5A	-15V
HVI41-33A	1.0A	1.5A	+5.0V	0.5A	0.8A	+15V	0.5A	0.8A	-15V
HVI41-390	4.0A	4.5A	+3.3V	1.8A	2.0A	+5V	0.2A	0.5A	-12V
HVI41-391	4.0A	4.5A	+3.3V	1.8A	2.0A	+5V	0.2A	0.5A	-5V

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

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 169.0g (5.96 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT		DUAL OUTPUT			TRIPLE OUTPUT			
	AC-LINE	AC-NEUTRAL	FASTON	VO1	DC COM	VO1	VO2	DC COM	VO1	VO2	VO3	DC COM
CONNECTOR & PIN #	P1- 1	P1- 2	AC-GROUND	P2-1,2,3	P2-4,5,6	P2-2,3	P2-1	P2-4,5,6	P2-2,3	P2-1	P2-6	P2-4,5

Mating connector: Molex 5195 or 5239 series.