

HiTRON

UNIVERSAL INPUT AC-DC INTERNAL OPEN FRAME SWITCHING POWER SUPPLIES 100 WATTS SINGLE, DUAL, TRIPLE & QUAD OUTPUT HVI102 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- LOW-PROFILE U-BRACKET FORMAT
- 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 connector or equivalent.
Input Frequency: 47-63Hz.
Inrush Current: ≤30.6A peak at 230Vac.
Input Current: Typical 1.8A at 115Vac,
Typical 0.8A at 230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI: Meet CISPR PUB. 22 & FCC Class B.
Hold-up Time: Typical 11mS at 115Vac,
Typical 60mS at 230Vac.
Power Fail Signal: Installed.
Leakage Current: Less than 0.4mA at 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: Molex connector or equivalent.
Output Wattage: Typical 100 Watts.
Line Regulation: Typical 0.1%.
Load Regulation: Main VO1 typical ±1-2%.
Aux.VO2/VO3/VO4 typical ± 3-5% (Common choke).
Noise & Ripple: Typ. 1.0% peak to peak.
OVP: Built-in at main output.
UVP: Built-in at main output.
Remote Sensing: Installed in main output VO1.
Adjustability: Available at main output 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: Typical 80-82%. (various with output voltage)
Switching Frequency: 63KHz.
Circuit Topology: Fixed Frequency Forward circuit.
Transient Response: Output voltage returns in
less than 3mS following
a 25% load change.
Safety Standard: Meet IEC 60950-1/UL 60950-1 Class I.
Power Density: 4.10Watts / Cubic Inch.
Operating Temperature: 0 to +50 °C under forced air flow
for full load.
Storage Temperature: -20 to +85°C.
Temperature Coefficient: Typical 0.04%/°C.
Cooling: At least 25CFM direct forward air flow is required to
achieve full rating power.
Construction: U-bracket format.

NOTE: (1)All measurement are at nominal input, full load and +25°C unless otherwise specifications.

(2)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.	Volt.
HV1102-19	25.0A	3.3V
HV1102-10	20.0A	5.0V
HV1102-11	8.5A	12.0V
HV1102-12	6.8A	15.0V
HV1102-13	4.2A	24.0V
HV1102-13B	3.0A	24.0V
HV1102-14	3.6A	28.0V
HV1102-15	2.8A	36.0V
HV1102-16	2.0A	48.0V
HV1102-17	1.3A	58.0V

DUAL OUTPUT

MODEL NO.	MAIN VO1 ★@#		AUX. ±VO2 ■		MODEL NO.
	Typ.	Volt.	Typ.	Volt.	
HV1102-20	10.0A	+5.0V	10.0A	-5.0V(+)	(HV1102-20P)
HV1102-21	10.0A	+5.0V	4.0A	-12.0V(+)	(HV1102-21P)
HV1102-22	10.0A	+5.0V	3.0A	-15.0V(+)	(HV1102-22P)
HV1102-23	10.0A	+5.0V	2.0A	-24.0V(+)	(HV1102-23P)
HV1102-23E	7.5A	+6.5V	2.0A	-24.0V(+)	(HV1102-23EP)
HV1102-24	4.0A	+12.0V	4.0A	-12.0V(+)	(HV1102-24P)
HV1102-25	3.4A	+15.0V	3.4A	-15.0V(+)	(HV1102-25P)
HV1102-290	10.0A	+3.3V	10.0A	-5.0V(+)	(HV1102-290P)
HV1102-291	12.0A	+3.3V	4.0A	-12.0V(+)	(HV1102-291P)
HV1102-292	12.0A	+3.3V	3.0A	-15.0V(+)	(HV1102-292P)
HV1102-293	12.0A	+3.3V	2.0A	-24.0V(+)	(HV1102-293P)

TRIPLE OUTPUT

MODEL NO.	MAIN +VO1 ★@#		AUX. +VO2 ■		AUX. -VO3 ■	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HV1102-30	10.0A	+5.0V	3.4A	+12.0V	0.6A	-12.0V
HV1102-31	10.0A	+5.0V	3.4A	+12.0V	0.6A	-5.0V
HV1102-32	10.0A	+5.0V	1.5A	+24.0V	0.6A	-12.0V
HV1102-33	10.0A	+5.0V	2.5A	+15.0V	0.6A	-15.0V
HV1102-390B	18.0A	+3.3V	4.0A	+5.0V	1.0A	+12.0V
HV1102-393	12.0A	+3.3V	3.4A	+12.0V	0.6A	-12.0V
HV1102-394	12.0A	+3.3V	2.8A	+15.0V	0.6A	-15.0V

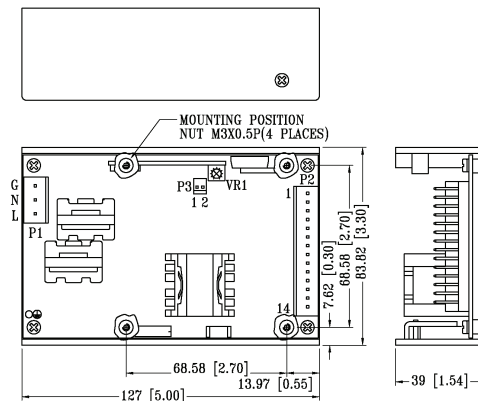
QUAD OUTPUT

MODEL NO	MAIN +VO1 ★@#		AUX. +VO2 ■		AUX. -VO3 ■		AUX. VO4 ■	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HV1102-40	10.0A	+5.0V	3.0A	+12.0V	0.60A	-12.0V	0.60A	12.00V
HV1102-41	10.0A	+5.0V	3.0A	+12.0V	0.60A	-5.0V	0.60A	5.00V
HV1102-42	10.0A	+5.0V	1.5A	+24.0V	0.60A	-12.0V	0.60A	12.00V
HV1102-43	10.0A	+5.0V	2.5A	+15.0V	0.60A	-15.0V	0.60A	12.00V
HV1102-44	10.0A	+5.0V	1.5A	+24.0V	0.50A	-15.0V	0.50A	15.00V
HV1102-44E	3.0A	+5.0V	1.5A	+24.0V	0.50A	-15.0V	0.50A	15.00V
HV1102-490	12.0A	+3.3V	3.0A	+12.0V	0.60A	-12.0V	0.60A	5.00V
HV1102-490E	10.0A	+5.0V	7.5A	+3.3V	0.25A	-12.0V	0.25A	12.00V
HV1102-490B	12.0A	+3.3V	4.0A	+5.0V	0.60A	-12.0V	0.60A	12.00V
HV1102-491	12.0A	+3.3V	2.5A	+15.0V	0.60A	-15.0V	0.60A	5.00V
HV1102-491B	12.0A	+3.3V	4.0A	+5.0V	0.60A	-15.0V	0.60A	15.00V
HV1102-492	12.0A	+3.3V	3.0A	+12.0V	0.60A	-12.0V	0.60A	12.00V
HV1102-493	12.0A	+3.3V	2.5A	+15.0V	0.60A	-15.0V	0.60A	12.00V
HV1102-494	12.0A	+3.3V	1.5A	+24.0V	0.60A	-12.0V	0.60A	12.00V
HV1102-495	7.0A	+3.3V	1.0A	+5.0V	1.00A	-5.0V	2.50A	24.00V
HV1102-496E	15.0A	+3.3V	1.1A	+5.0V	1.25A	-48.0V	0.30A	6.25V

Symbol: "★" OVP built-in. "@" Adjustable. "■" Remote sensing. "■" Coupled choke. "●" Installed with Post Regulator. "◇" Floating(or isolated)output.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 448.5g (15.82 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT		DUAL OUTPUT			TRIPLE OUTPUT				QUAD OUTPUT				ASSORTED SIGNAL				
	AC-L	AC-N	AC-G	VO1	DC-COM	VO1	VO2	DC-COM	VO1	VO2	VO3	DC-COM	VO1	VO2	VO3	+VO4	-VO4	DC-COM	-S	+S	PFS
CTR&PIN#	P1-L	P1-N	P1-G	P2-1,2,3,4,5	P2-6,7,8,9,10,11	P2-1,2,3	P2-8,9	P2-4,5,6,7,10,13	P2-1,2,3	P2-8,9	P2-11	P2-4,5,6,7,10,13	P2-1,2,3	P2-8,9	P2-11	P2-14	P2-13	P2-4,5,6,7	P3-1	P3-2	P3-12

Mating connector: P1,2,3 Molex # 5195 or 5239 series.