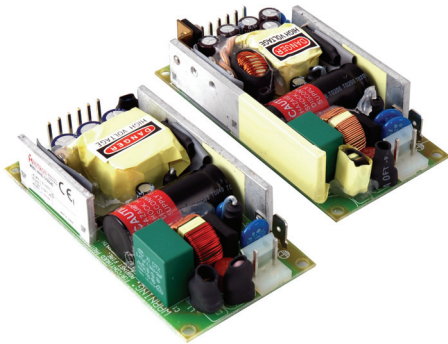


# HiTRON

## UNIVERSAL INPUT AC-DC INTERNAL OPEN FRAME SWITCHING POWER SUPPLIES 60-62 WATTS SINGLE, DUAL & TRIPLE OUTPUT HVI63 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- 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 typical 90-264Vac.  
Rating 100 to 240Vac.  
**Input Connector:** Molex connector or equivalent  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** ≤12.0A rms at cold start at 230Vac.  
**Input Current:** Typical 0.9A at 115Vac,  
Typical 0.435A at 230Vac.  
**Dielectric Withstand:** Meet IEC 60950-1.  
**EMI:** Meet CISPR PUB. 22 & FCC Class B.  
**Hold-up Time:** Typical 11.2mS at 115Vac,  
Typical 72.mS at 230Vac.  
**Leakage Current:** Less than 0.42mA at 230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Connector:** Molex connector or equivalent.  
**Output Wattage:** Typical 60-62 watts.  
**Line Regulation:** Typical 0.1%.  
**Load Regulation:** Main VO1 typical ±1.0%.  
Aux. VO2 typical ±3-8.0%.  
Aux. VO3 typical ±3.0%.  
**Noise & Ripple:** Typical 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.  
Typical OLP set at 105-120% of rating output power.  
Consult the factory for OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typical 80-89.5%. (Various with output voltage)  
**Switching Frequency:** 130KHz or 70KHz.  
**Circuit Topology:** Fixed frequency forward circuit for triple output and 5V/3.3V of single output.  
Fixed Frequency Flyback circuit for high voltage of single output.  
**Transient Response:** Output voltage returns in less than 0.5mS following a 50% load change.  
**Safety Standard:** Meet IEC 60950-1 Class I.  
**Power Density:** 7.5-7.7Watts / 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:** Typical 0.04%/°C.  
**Cooling:** At least 5CFM direct forward air flow is required to achieve full rating power.  
**Construction:** 4"x2"x1" PCB 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 ★				
	Min.	Typ.	Volt.	Max.	Peak
HVI63-S033100	0.2A	10.00A	3.3V	10.00A	12.0A
HVI63-S050100	0.2A	10.00A	5.0V	10.00A	12.0A
HVI63-S120050	0.0A	5.00A	12.0V	5.00A	6.0A
HVI63-S150040	0.0A	4.00A	15.0V	4.00A	5.0A
HVI63-S240025	0.0A	2.50A	24.0V	2.50A	3.0A
HVI63-S480125	0.0A	1.25A	48.0V	1.25A	1.3A

## DUAL OUTPUT

MODEL NO.	MAIN +VO1 ★			AUX. +VO2 ■		
	Min.	Typ.	Volt.	Min.	Typ.	Volt.
HVI63-D0511	0.5A	4.0A	+5.1V	0.2A	3.5A	+12V

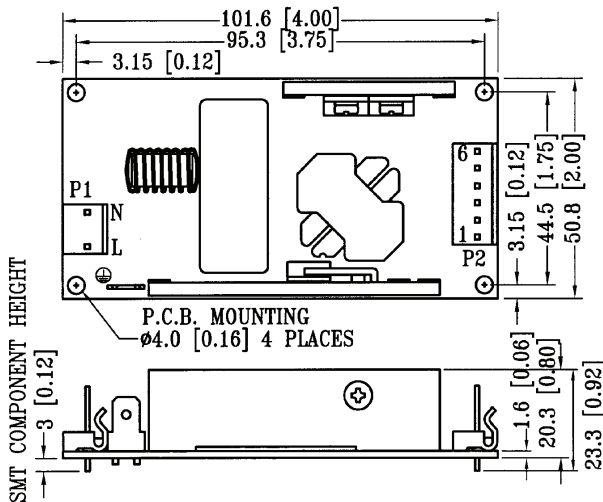
## TRIPLE OUTPUT

MODEL NO.	MAIN +VO1 ★					AUX. +VO2 ■					AUX. -VO3 ■				
	Min.	Typ.	Volt.	Max.	Peak	Min.	Typ.	Volt.	Max.	Peak	Min.	Typ.	Volt.	Max.	Peak
HVI63-T050II	0.5A	6.0A	+5.0V	8A	10A	0.1A	2.2A	+12V	3.0A	4A	0A	0.5A	-12V	0.5A	1A
HVI63-T050MI	0.5A	6.0A	+5.0V	8A	10A	0.1A	1.1A	+24V	1.5A	2A	0A	0.5A	-12V	0.5A	1A
HVI63-T050KK	0.5A	6.0A	+5.0V	8A	10A	0.1A	1.8A	+15V	2.5A	3A	0A	0.5A	-15V	0.5A	1A
HVI63-T033EI	0.5A	8.0A	+3.3V	8A	10A	0.1A	3.0A	+5V	3.0A	4A	0A	0.5A	-12V	0.5A	1A

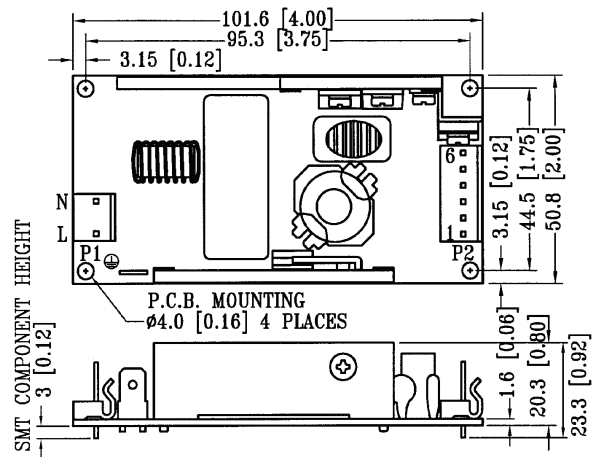
Symbol: "★" OVP built-in. "■" Couple common choke.

## MECHANICAL DIMENSIONS: MM [INCHES]

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



**SINGLE OUTPUT**



**DUAL/TRIPLE OUTPUT**

## INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT CNTR/PIN#	AC INPUT			SINGLE OUTPUT		DUAL/TRIPLE OUTPUT			
	AC-L	AC-N	AC-G	VO1	DC COM	VO1	VO2	VO3	DC COM
	P1-L	P1-N	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.