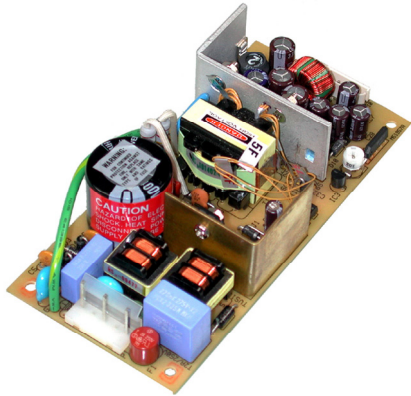


# HiTRON

## UNIVERSAL INPUT AC-DC PCB OPEN FRAME QUAD OUTPUT 14 WATTS INTERNAL SWITCHING POWER SUPPLIES HVI14 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- COMPACT 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:** Molex # 5273.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** Typ. 20A @230Vac.  
**Input Current:** Typ. 0.30A @115Vac, 0.15A@230Vac.  
**Dielectric Withstand:** Meet IEC950.  
**EMI:** Meet CISPR PUB.22 & FCC Class B.  
**Hold-up Time:** 14mS @115Vac, 50mS @230Vac.  
**Earth Leakage:** Typ. 0.6mA @230Vac.  
**Overload Protection (OLP):** Fully protected against output overload and short circuit.  
Consult the factory for OLP setting.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typ. 14 watts.  
**Output Connector:** Molex # 5267-NA.  
**Line Regulation:** Typ. 0.1%.  
**Load Regulation:** Main VO1 typ.  $\pm 3.0\%$   
Aux. VO2,3,4 typ.  $\pm 5\%$  (P.R.).  
**Noise & Ripple:** Typ. 1% peak to peak.  
**OVP:** Built-in at VO1 (Zener diode).  
**Adjustability:** Available at main VO1.  
**DC OK:** Available at main VO1.

#### GENERAL SPECIFICATION

**Efficiency:** Typ. 70%.  
**Switching Frequency:** 40K Hz.  
**Circuit Topology:** Fixed frequency flyback Circuit.  
**Transient Response:** Output voltage returns in less than 3mS following a 25% load change.  
**Safety standard:** IEC950/UL1950 Class II.

**Operating Temperature:** 0 to +50°C.  
**Storage Temperature:** -20 to +85°C.  
**Temperature Coefficient:** Typ. 0.04% /°C.  
**Cooling:** Free air convection.  
**Construction:** PCB open frame format.  
**Power Density:** 1.36 Watts / Cubic Inch.



In application

## OUTPUT VOLTAGE/CURRENT RATINGS CHART

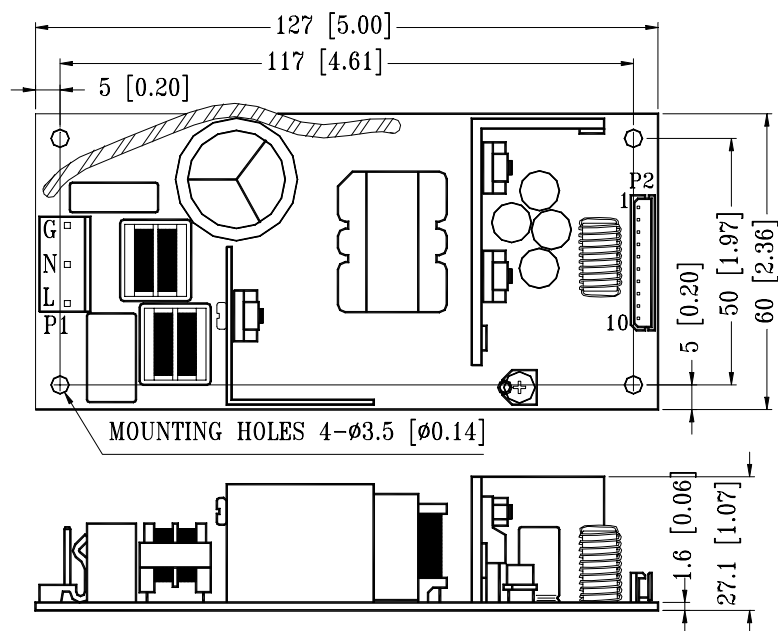
### QUAD OUTPUT

| MODEL NO.     | MAIN VO1 @★ |       | AUX. VO2 ● |       | AUX. VO3 ● |       | AUX. VO4 ● |       |
|---------------|-------------|-------|------------|-------|------------|-------|------------|-------|
|               | Typ.        | Volt. | Typ.       | Volt. | Typ.       | Volt. | Typ.       | Volt. |
| HVI14-Q033EKK | 2.5A        | +3.3V | 0.3A       | +5.0V | 0.06A      | +15V  | 0.06A      | -15V  |
| HVI14-Q033EII | 2.5A        | +3.3V | 0.3A       | +5.0V | 0.08A      | +12V  | 0.08A      | -12V  |
| HVI14-Q033EIE | 2.5A        | +3.3V | 0.3A       | +5.0V | 0.08A      | +12V  | 0.20A      | -5V   |
| HVI14-Q050DKK | 2.0A        | +5.0V | 0.5A       | +3.3V | 0.06A      | +15V  | 0.06A      | -15V  |
| HVI14-Q050DII | 2.0A        | +5.0V | 0.5A       | +3.3V | 0.08A      | +12V  | 0.08A      | -12V  |
| HVI14-Q050DIE | 2.0A        | +5.0V | 0.5A       | +3.3V | 0.08A      | +12V  | 0.20A      | -5V   |

Symbol: "★" OVP built-in. "@" Adjustable. "●" Installed with Post Regulator (P.R.).

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 151.0g (5.32 Oz.)**



### INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

| ASSIGNMENT        | AC INPUT |      | QUAD OUTPUT |      |      |      |          |         |       |
|-------------------|----------|------|-------------|------|------|------|----------|---------|-------|
|                   | AC-L     | AC-N | VO1         | VO2  | VO3  | VO4  | DC COM   | P. GOOD | NC    |
| CONNECTOR & PIN # | P1-L     | P1-N | P2-1,2      | P2-5 | P2-6 | P2-7 | P2-3,4,8 | P2-9    | P2-10 |

Mating connector: P1 Molex 5195 or 5239 series.

P2 Molex 5264-N series.