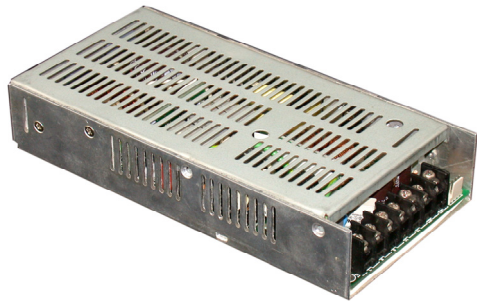


# HiTRON

## UNIVERSAL INPUT HARMONIC CORRECTION AC-DC OPEN FRAME SINGLE & MULTI-OUTPUT 100 WATTS INTERNAL SWITCHING POWER SUPPLIES HVP100 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- MEET IEC 61000-3-2 HARMONIC CORRECTION
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 CLASS B
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** Typ. 90-264Vac with PFC.  
**Input Connector:** B-S connector.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** Typ. 20A @230Vac (active).  
**Input Current:** 1.6A@115Vac, 0.6A@230Vac.  
**Dielectric Withstand:** Meet IEC 60950-1.  
**EMI:** Meet CISPR PUB. 22 Class B.  
**Hold-up Time:** Typ. 30mS @ 115Vac & 230Vac.  
**Power Fail Signal:** Installed.  
**Power Factor Correction:** Meet Harmonic Correction per IEC 61000-3-2.PF typ. 0.98.  
**Earth Leakage:** Less than 0.5mA.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Connector:** B-S connector.  
**Output Wattage:** Typ. 100 Watts.  
**Line Regulation:** Typ. 1.0%.  
**Load Regulation:** Main VO1 typ.  $\pm 1.0\%$ .  
**Noise & Ripple:** Typ. 1.0% peak to peak.  
**OVP:** Built-in at main VO1 only.  
**Remote Sense:** Installed in VO1.  
**Adjustability:** Available at main O/P 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. 74-79%.  
**Switching Frequency:** Fixed frequency at 85 or 80K Hz.  
**Circuit Topology:** PWM fixed frequency forward 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. 0.04% /°C.  
**Cooling:** Free air convection.  
Recommended 20cfm fan cooling for full load.  
**Construction:** Enclosure box or 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.



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

## OUTPUT VOLTAGE / CURRENT RATINGS CHART

### SINGLE OUTPUT

| MODEL NO. | MAIN VO1 @★# |       |
|-----------|--------------|-------|
|           | Typ.         | Volt. |
| HVP100-10 | 20.0A        | 5.0V  |
| HVP100-11 | 8.5A         | 12.0V |
| HVP100-12 | 7.0A         | 15.0V |
| HVP100-13 | 4.5A         | 24.0V |
| HVP100-14 | 4.0A         | 28.0V |
| HVP100-15 | 3.0A         | 36.0V |
| HVP100-17 | 2.1A         | 48.0V |
| HVP100-19 | 25.0A        | 3.3V  |

### DUAL OUTPUT

| MODEL NO.   | MIAN VO1 @★ |       | AUX. VO2 †■ |       |
|-------------|-------------|-------|-------------|-------|
|             | Typ.        | Volt. | Typ.        | Volt. |
| HVP100- 21  | 10.0A       | +5.0V | 4.0A        | +12V  |
| HVP100- 22  | 10.0A       | +5.0V | 3.2A        | +15V  |
| HVP100- 23  | 10.0A       | +5.0V | 2.0A        | +24V  |
| HVP100- 291 | 15.0A       | +3.3V | 4.0A        | +12V  |
| HVP100- 292 | 15.0A       | +3.3V | 3.2A        | +15V  |
| HVP100- 293 | 15.0A       | +3.3V | 2.0A        | +24V  |

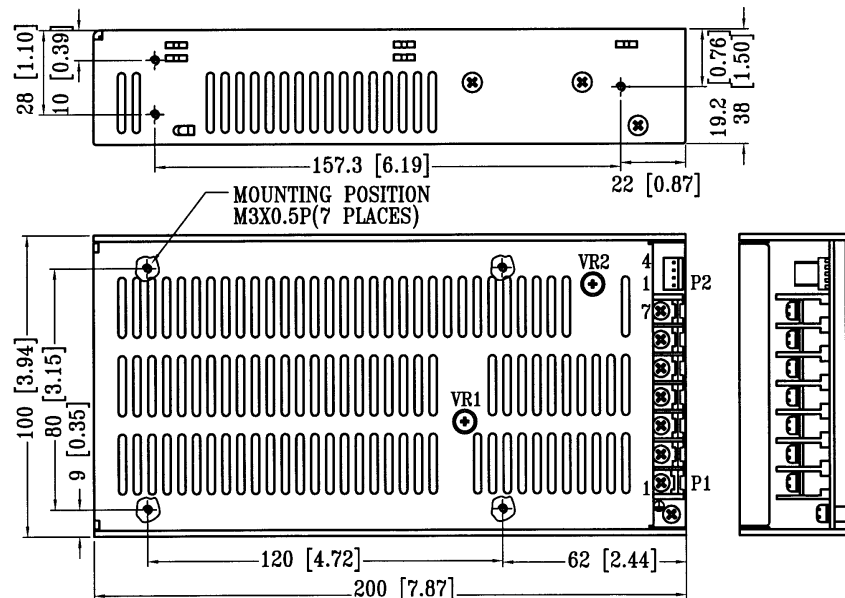
### TRIPLE OUTPUT

| MODEL NO.   | MAIN VO1 @★ |       | AUX. VO2 †■ |       | AUX. ±VO3 • |       |
|-------------|-------------|-------|-------------|-------|-------------|-------|
|             | Typ.        | Volt. | Typ.        | Volt. | Typ.        | Volt. |
| HVP100- 30  | 12.0A       | +5.0V | 3.0A        | +12V  | 0.8A        | 12V   |
| HVP100- 31  | 12.0A       | +5.0V | 3.0A        | +12V  | 0.8A        | 5V    |
| HVP100- 32  | 12.0A       | +5.0V | 1.5A        | +24V  | 0.8A        | 12V   |
| HVP100- 33  | 12.0A       | +5.0V | 3.0A        | +15V  | 0.3A        | 15V   |
| HVP100- 392 | 12.0A       | +3.3V | 3.0A        | +12V  | 0.8A        | 12V   |
| HVP100- 393 | 12.0A       | +3.3V | 3.0A        | +15V  | 0.3A        | 15V   |
| HVP100- 394 | 12.0A       | +3.3V | 1.5A        | +24V  | 0.8A        | 12V   |

Symbol: "★" OVP built-in. "@" Adjustable. "±" Positive or Negative selectable (factory set). "#" Remote sensing.  
 "■" Coupled choke. "•" Installed with Post Regulator (P.R.). "†" Stacked on main output.

### MECHANICAL DIMENSIONS: MM [INCHES]

**WEIGHT:** L-B 706.0g (24.9 Oz.)  
 Box 795.0g (28.0 Oz.)



### INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

| ASSIGNMENT   | AC INPUT |      |      | SINGLE OUTPUT |        | DUAL OUTPUT |      |        | TRIPLE OUTPUT |      |      |        | ASSORTED SIGNALS |          |      |        |
|--------------|----------|------|------|---------------|--------|-------------|------|--------|---------------|------|------|--------|------------------|----------|------|--------|
|              | ACL      | AC-N | AC-G | VO1           | DC-COM | VO1         | VO2  | DC-COM | VO1           | VO2  | VO3  | DC-COM | -SENSING         | +SENSING | P.F  | DC-COM |
| CNTR & PIN # | P1-1     | P1-2 | P1-3 | P1-4,5        | P1-6,7 | P1-4        | P1-6 | P1-5   | P1-4          | P1-6 | P1-7 | P1-5   | P2-4             | P2-3     | P2-2 | P2-1   |

Mating connector: P1: Non, Screw on Top. P2: Molex 5051 or equivalent.