



**UNIVERSAL AC INPUT HARMONIC CORRECTION  
AC-DC INDUSTRIAL DIN- RAIL SINGLE OUTPUT 150 WATTS  
ACTIVE CURRENT SHARING SWITCHING MODE  
POWER SUPPLIES HPD150 SERIES**



**FEATURES:**

- ACCOMMODATE UNIVERSAL AC SOURCES IN THE WORLD
- MEET IEC 61000-3-2 HARMONIC CORRECTION
- MEET UNIVERSAL SAFETY STANDARDS AND INDUSTRIAL UL 508
- INDUSTRIAL POWER SUPPLIES FOR SNAP-ON MOUNTING ON DIN-RAILS
- EMI MEET CISPR PUB. 22 & FCC CLASS B
- CE MARKING COMPLIANCE

**SPECIFICATION**

**INPUT SPECIFICATION**

**Input Voltage:** Typ. 90-264Vac universal input.  
**Input Connector:** Phoenix GMSTBA2.5/3-G-7.62.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** Typ. 30A peak @ 230Vac.  
**Input Current:** 1.6A @ 115Vac, 0.8A @ 230Vac.  
**Dielectric Withstand:** Meet IEC 60950-1.  
**EMI/RFI:** Meet CISPR EN 55022 & FCC B.  
**Power Factor Correction:** Meet Harmonic Correction per IEC 61000-3-2.PF typ.0.96-0.98.  
**Remote Inhibit:** Availabe.  
**No Load Operation:** No damage.  
**Hold-up Time:** 30mS @ 115Vac & 230Vac.  
**Earth Leakage:** Less than 0.40mA @ 230Vac.

**OUTPUT SPECIFICATION**

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typ. 150W continuous.  
**Output Connector:** Phoenix MSTBA2.5/2-G-5.08.  
**Line Regulation:** Typ. 0.1%.  
**Load Regulation:** Typ.  $\pm 1.0\%$ .  
**Noise & Ripple:** Typ. 1% peak to peak.  
**OVP:** Built-in.  
**Remote Sense:** Installed.  
**Adjustability:** Available.  
**Load Sharing:** Active current sharing. (Option)  
**LED Indicator:** Output indicating.  
**Overload Protection (OLP):**  
 Fully protected against output overload and short circuit.  
 Typically set at 115-130% of the output wattage.  
 Consult the factory for the special OLP setting.

**GENERAL SPECIFICATION**

**Efficiency:** Typ. 83-86%.  
**Switching Frequency:** Fixed frequency 88-92KHz.  
**Circuit Topology:** Fixed freq. forward 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.  
**Power Density:** 2.4Watts /Cubic Inch.  
**Industrial Grade UL 508.**

**Operating Temperature:** -10 to +70°C. Derating from +60 to +70°C by derating 2%/°C.  
**Storage Temperature:** -25 to +85°C.  
**Temperature Coefficient:** Typ. 0.03% /°C.  
**Cooling:** Free air convection cooling for Ta <+60°C.  
 Required 20cfm airflow for Ta. >+ 60°C full load operation.  
**Construction format:** Enclosure metal box with DIN-clips format.

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



In application

## OUTPUT VOLTAGE / CURRENT RATINGS CHART

### SINGLE OUTPUT

| MODEL NO.      | MAIN VO1 @ ★(≡)# |       |       |
|----------------|------------------|-------|-------|
|                | TYP.             | VOLT. | PEAK  |
| HPD150-S120125 | 12.5A            | 12.0V | 15.0A |
| HPD150-S240065 | 6.5A             | 24.0V | 7.5A  |
| HPD150-S480034 | 3.4A             | 48.0V | 4.0A  |

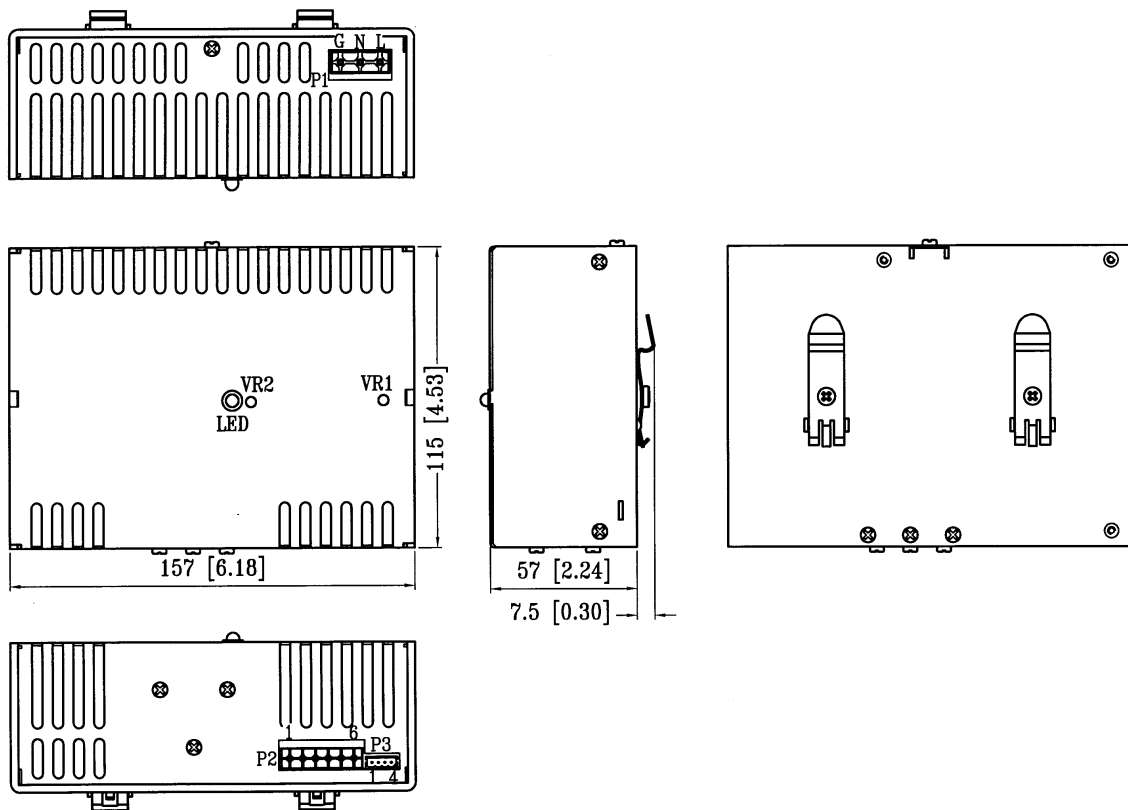
Symbol: "(≡)" Active circuit current sharing. (Option) "★" OVP built-in.

"#" Remote sensing. "@" Adjustable.

Remark: Peak load less than 60sec. with duty cycle <10%.

### MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 1.13kg(2.51 lb.)



### INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

| ASSIGNMENT   | AC INPUT |      |      | SINGLE OUTPUT |          | ASSORTED SIGNAL |          |         |      |
|--------------|----------|------|------|---------------|----------|-----------------|----------|---------|------|
|              | AC-L     | AC-N | AC-G | VO1           | DC-COM   | -SENSING        | +SENSING | INHIBIT | C/S  |
| CNTR & PIN # | P1-L     | P1-N | P1-G | P2-4,5,6      | P2-1,2,3 | P3-1            | P3-2     | P3-3    | P3-4 |

Mating connector: P1 :Phoenix GMSTB2.5/3-ST-7.62

P2: Phoenix MSTB2.5/2-ST-5.08