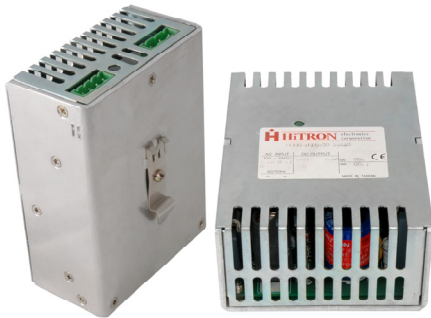


# HiTRON

## UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC INDUSTRIAL DIN-RAIL SINGLE OUTPUT 100 WATTS SWITCHING MODE POWER SUPPLIES HPD100 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- 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 EN 55022 CLASS B
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** Typ. 90-264Vac universal AC input.  
**Input Connector:** Phoenix GMSTBA2.5/3-G-7.62.  
**Input Frequency:** 47-63 Hz.  
**Inrush Current:** Typ. 25A @230Vac.  
**Input Current:** 1.1A @115Vac/ 0.55A @230Vac.  
**Dielectric Withstand:** Meet IEC 60950-1.  
**EMI:** Meet EN 55022/FCC Class B.  
**Power Factor Correction:** Meet Harmonic Correction per IEC 61000-3-2. PF typ. 0.96-0.98.  
**No Load Operation:** No damage.  
**Hold-up Time:** Typ. 46mS @115Vac & 230Vac.  
**Earth Leakage:** Less than 0.70mA @ 230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typ. 100W continuous.  
**Output Connector:** Phoenix MSTBA2.5/4-G-5.08.  
**Line Regulation:** Typ. 0.1%.  
**Load Regulation:** Typ.  $\pm 1.0-1.5\%$ .  
**Noise & Ripple:** Typ. 1.0% peak to peak.  
**OVP:** Built-in.  
**Adjustment:** Available.  
**LED Indicator:** Installed.  
**Overload Protection (OLP):**  
 Fully protected against output overload and short circuit.  
 Typically set at 120-130% max. load.  
 Consult the factory for special OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typ. 82%.  
**Switching Frequency:** Fixed frq. 66.6K Hz.  
**Circuit Topology:** Fixed frequency forward circuit.  
**Transient Response:** Recovers in less than 3mS following a 25% load change.  
**Safety Standard:** IEC 60950-1/UL 60950-1 Class I.  
**Power Density:** 2.76 Watts / Cubic inch.  
**Industrial Grade UL 508.**

**Operating Temperature:** -10 to +70°C. Derating from +60°C 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  $T_a < +60^\circ\text{C}$ .  
 Moving air is request for  $T_a > +60^\circ\text{C}$  full load operation.  
**Construction format:** Enclosure metal box format with DIN-clips.

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

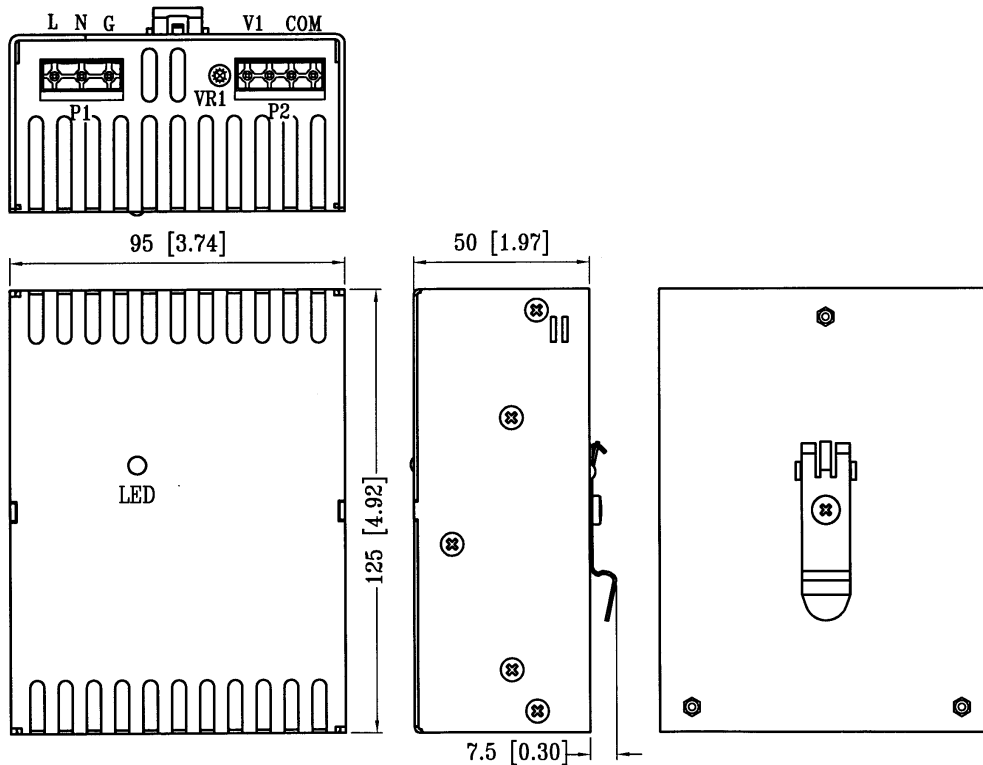
MODEL NO.	MAIN O/P @★		
	Typ.	Volt.	Peak
HPD100-S120084	8.4A	12.0V	9.6A
HPD100-S240042	4.2A	24.0V	4.8A
HPD100-S480021	2.1A	48.0V	2.4A

Symbol: "@" Adjustable. "★" OVP built-in.

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

### MECHANICAL DIMENSIONS: MM [INCHES]

**WEIGHT:** 670g (23.63 Oz.)



### INPUT & OUTPUT CONNECTORS PIN ASSIGNMENTS

ASSIGNMENT CONNECTOR & PIN #	AC INPUT			SINGLE OUTPUT	
	AC-L	AC-N	AC-G	VO1	DC-COM
	P1-3	P1-2	P1-1	P2-3, 4	P2-1, 2

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

P2: Phoenix MSTB2.5/4-ST-5.08