

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 Ta < +60°C.
 Moving air is request for Ta > +60°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

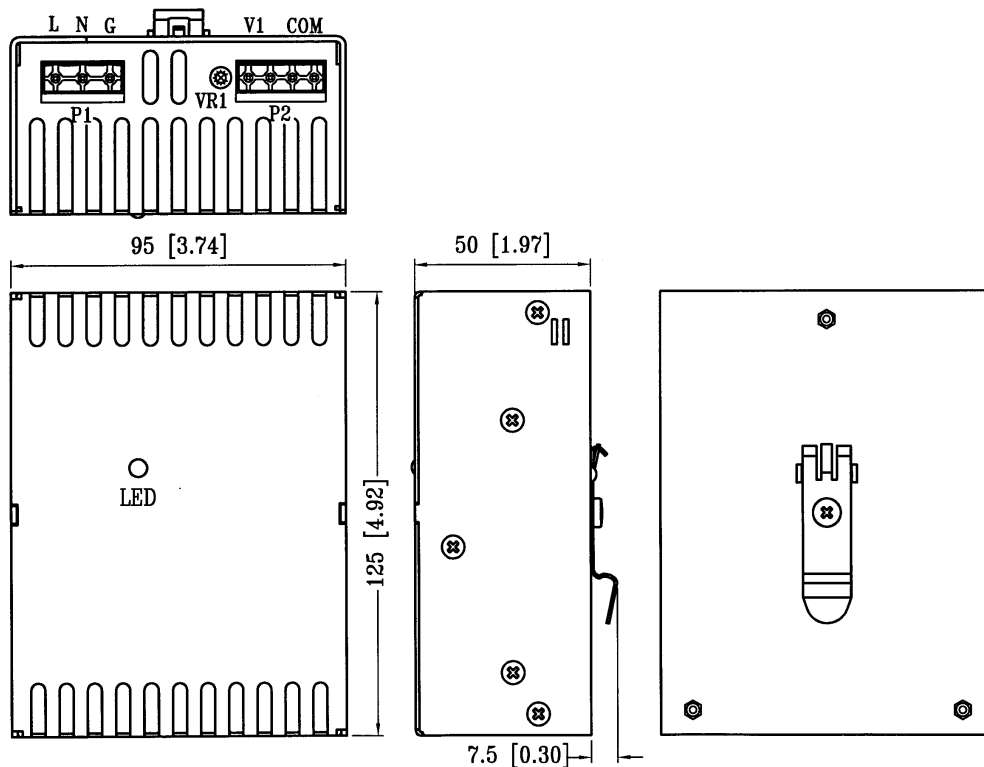
MODEL NO.	MAIN O/P @★		
	Typ.	Volt.	Peak
HPD100-S120084	8.4A	12.0V	9.6A
HPD100-S240042	4.2A	24.0V	4.8A
HPD100-S480021	2.1A	48.0V	2.4A

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