# Hitron

# UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC INDUSTRIAL DIN-RAIL SINGLE OUTPUT 120 WATTS SWITCHING MODE POWER SUPPLIES HPD125 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 with PFC. **Input Connector:** M-T plug connector.

Input Frequency: 47-63Hz.

Inrush Current: Typ. 26A @ 230Vac.

Input Current: 1.35A @ 115Vac, 0.9A @ 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. 60mS @ 115Vac, 80mS @ 230Vac.

Earth Leakage: Less than 0.60mA @ 230VAC.

#### **OUTPUT SPECIFICATION**

Output Voltage: See Ratings Charts.
Output Current: See Ratings Charts.
Output Wattage: Typ. 120W continuous.
Output Connector: M-T plug connector.

Line Regulation: Typ. 0.1%. Load Regulation: Typ. ± 0.5-1.0% Noise & Ripple: Typ. 1% 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 130% max. load.

Consult the factory for special OLP setting.

#### **GENERAL SPECIFICATION**

Efficiency: Typ. 78%.

**Switching Frequency:** Fixed frequency 72KHz. **Circuit Topology:** Fixed freq. forward circuit.

**Transient Response:** Peak transient 68mV and recovers

within 20mS after 25% load change.

Safety Standard: IEC 60950-1/UL 60950-1 Class I.

Power Density: 2.10Watts /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 +100°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 with

DIN-clips format.

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







# **OUTPUT VOLTAGE / CURRENT RATINGS CHART**

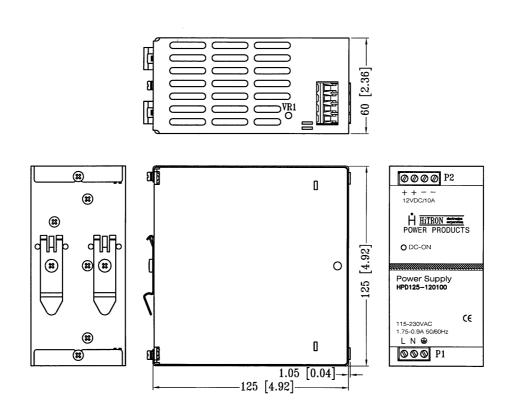
#### SINGLE OUTPUT

MODEL NO.		MAIN VO1 @★	
	Тур.	Volt.	Peak
HPD125-S120100	10.0A	12.0V	12.0A
HPD125-S240050	5.0A	24.0V	6.0A
HPD125-S480025	2.5A	48.0V	3.0A

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

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

# MECHANICAL DIMENSIONS: MM [INCHES] WEIGHT: 850.0g(29.98 Oz.)



#### INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

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