

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. $\pm 0.5-1.0\%$
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.



In application

OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT

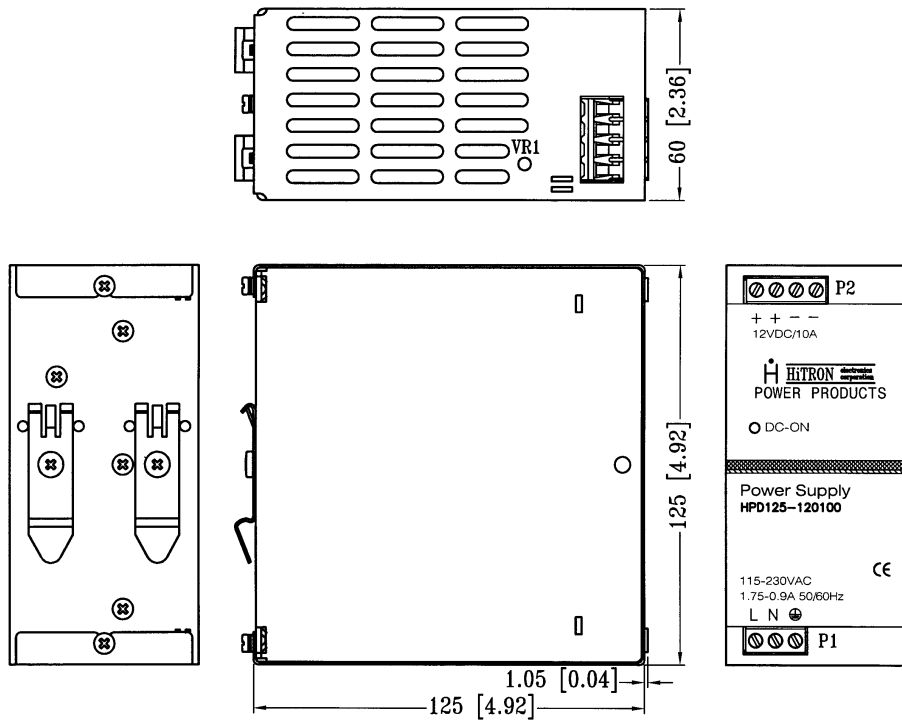
MODEL NO.	MAIN VO1 @★		
	Typ.	Volt.	Peak
HPD125-S120100	10.0A	12.0V	12.0A
HPD125-S240050	5.0A	24.0V	6.0A
HPD125-S480025	2.5A	48.0V	3.0A

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

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