

# HiTRON

## UNIVERSAL AC INPUT AC-DC INDUSTRIAL DIN-RAIL SINGLE OUTPUT 120 WATTS SWITCHING MODE POWER SUPPLIES HID125 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- MEET UNIVERSAL SAFETY STANDARD
- 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.  
**Input Connector:** M-T plug connector.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** Typ. <30.5A @ 230Vac.  
**Input Current:** 1.56A @115Vac, 0.86A @230Vac.  
**Dielectric Withstand:** Meet IEC 60950-1.  
**EMI:** Meet CISPR EN 55022 & FCC B.  
**No Load Operation:** No damage.  
**Hold-up Time:** Typ. 13mS @115Vac / 86mS @230Vac.  
**Earth Leakage:** Typ. 0.65mA @230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typ. 120W continuous.  
**Output Connector:** M-T plug connector.  
**Line Regulation:** Typ. 0.1%.  
**Load Regulation:** Typ.  $\pm 1.0$ -2.0%.  
**Noise & Ripple:** Typ. 1% peak to peak.  
**OVP:** Built-in. (Latch).  
**Adjustability:** Available at VO1.  
**LED Indicator:** Output indicating.  
**Overload Protection (OLP):**  
Fully protected against output overload and short circuit.  
Typically set at 140% max. load.  
Consult the factory for special OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typ. 81-82%.  
**Switching Frequency:** Fixed frq.62K Hz.  
**Circuit Topology:** Fixed frequency flyback circuit.  
**Transient Response:** Peak transient 14mV and recovers within 2.93mS after 25% load change.  
**Safety Standard:** IEC 60950-1/UL 60950-1 Class I.  
**Power Density:** 2.0 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:** 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

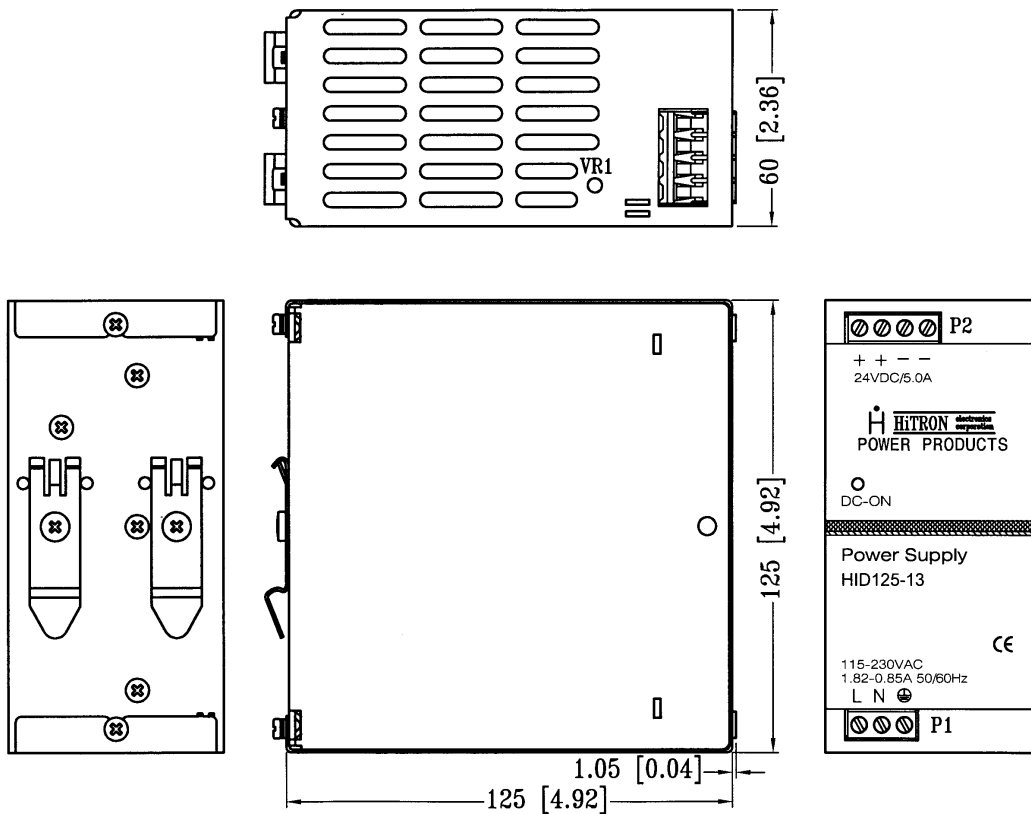
MODEL NO.	MAIN VO1 @ ★		
	Typ.	Volt.	Peak
<b>HID125-S120100</b>	10.0A	<b>12.0V</b>	12.0A
<b>HID125-S240050</b>	5.0A	<b>24.0V</b>	6.0A
<b>HID125-S480025</b>	2.5A	<b>48.0V</b>	3.0A

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

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

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 715.0g(25.2 Oz.)**



### INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

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