

• **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. ± 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 freq. 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

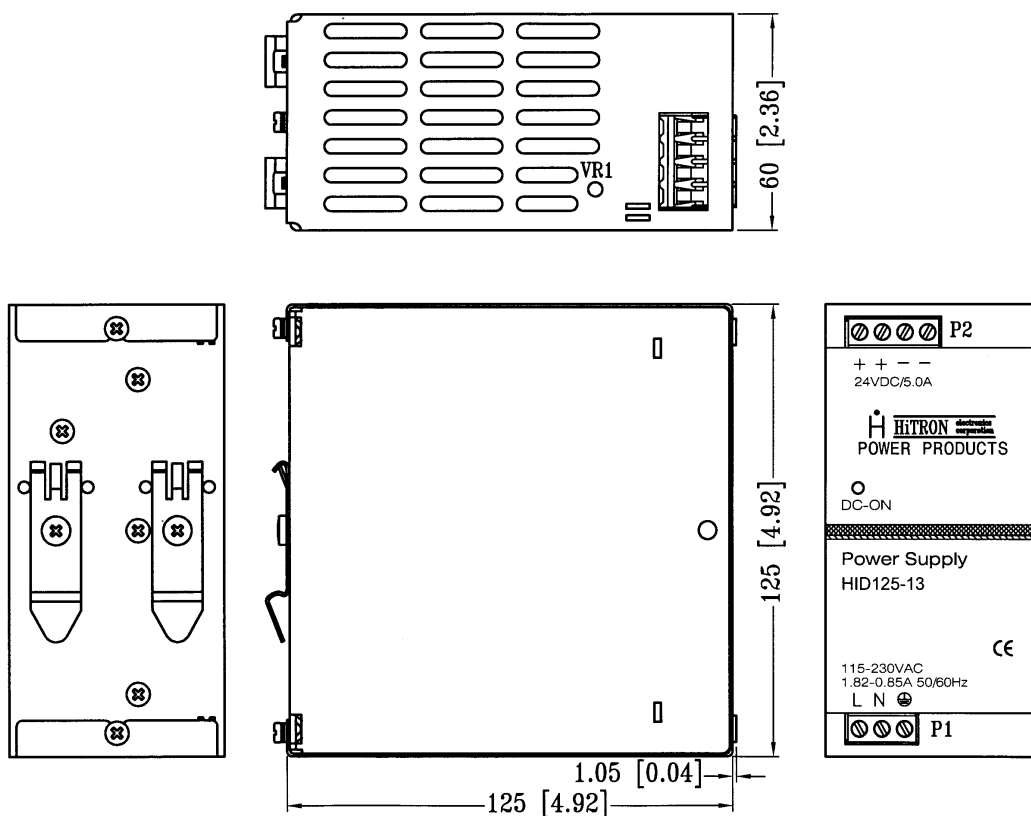
MODEL NO.	MAIN VO1 @ ★		
	Typ.	Volt.	Peak
HID125-S120100	10.0A	12.0V	12.0A
HID125-S240050	5.0A	24.0V	6.0A
HID125-S480025	2.5A	48.0V	3.0A

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