

HiTRON

UNIVERSAL AC INPUT AC-DC INDUSTRIAL DIN-RAIL SINGLE OUTPUT 60 WATTS SWITCHING MODE POWER SUPPLIES HID60 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- MEET UNIVERSAL SAFETY STANDARDS & INDUSTRIAL UL 508
- 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 universal input.
Input Connector: Phoenix GMSTBA2.5/3-G-7.62.
Input Frequency: 47-63Hz.
Inrush Current: Typ. 25A @ 230Vac.
Input Current: Typ. 1.0A/115Vac, 0.5A/230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI: Meet CISPR EN 55022 & FCC B.
No Load Operation: No damage.
Hold-up Time: 20mS @ 115Vac/ 110mS @ 230Vac.
Earth Leakage: Less than 0.4mA @ 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Charts.
Output Current: See Ratings Charts.
Output Wattage: Typ. 60W continuous.
Output Connector: Phoenix MSTBA2.5/2-G-5.08.
Line Regulation: Typ. 0.1%.
Load Regulation: Vary with output voltages.
 Typ. $\pm 1.0\%$.
Noise & Ripple: Typ. 1% peak to peak.
OVP: Built-in.
Adjustability: Available.
LED Indicator: Installed.
Overload Protection (OLP):
 Fully protected against output overload and short circuit.
 Typically set at 110-150% max. load.
 Consult the factory for special OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 75%.
Switching Frequency: Fixed frq. 50K Hz.
Circuit Topology: Fixed frequency flyback 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: 2.0Watts / 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 required 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

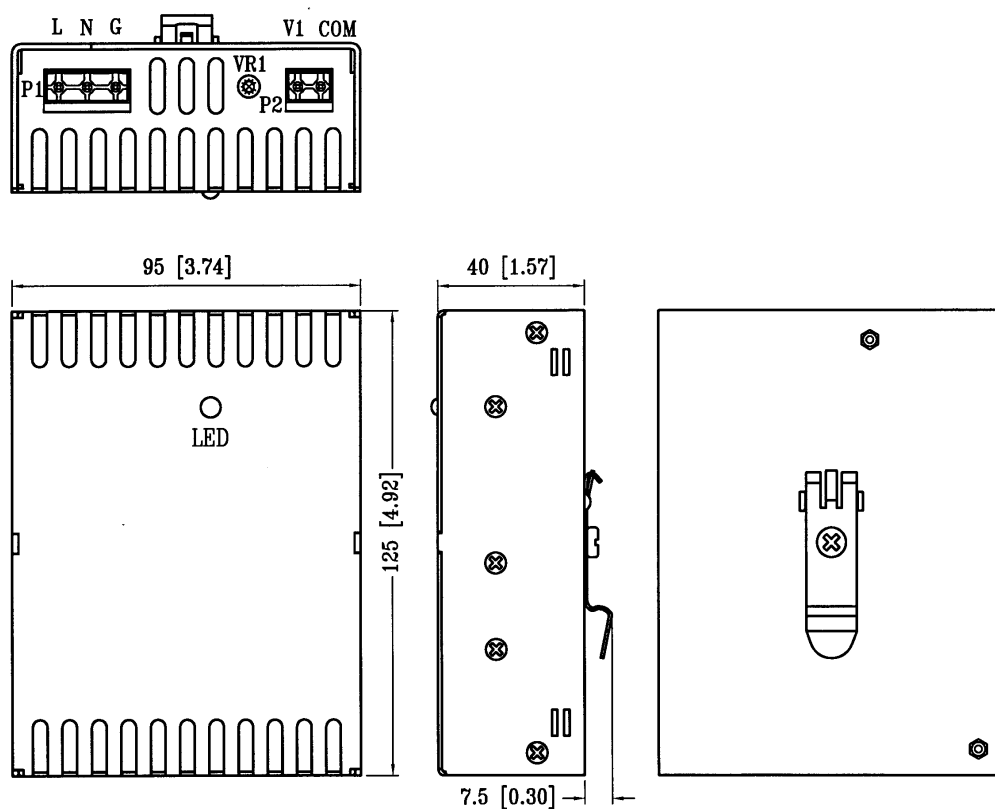
MODEL NO.	MAIN VO1 @★		
	Typ.	Volt	Peak
HID60-S120050	5.0A	12.0V	5.6A
HID60-S240025	2.5A	24.0V	2.8A
HID60-S480012	1.2A	48.0V	1.4A

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

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

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 500.5g (17.65 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT	
	AC-LINE	AC-NEUTRAL	AC-GROUND	VO1	DC COM
CONNECTOR & PIN #	P1-3 (L)	P1-2 (N)	P1-1(G)	P2-2 (V1)	P2-1 (COM)

Mating connector: P1: Phoenix GMSTB2.5/3-ST-7.62

P2: Phoenix MSTB2.5/2-ST-5.08.