



## 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

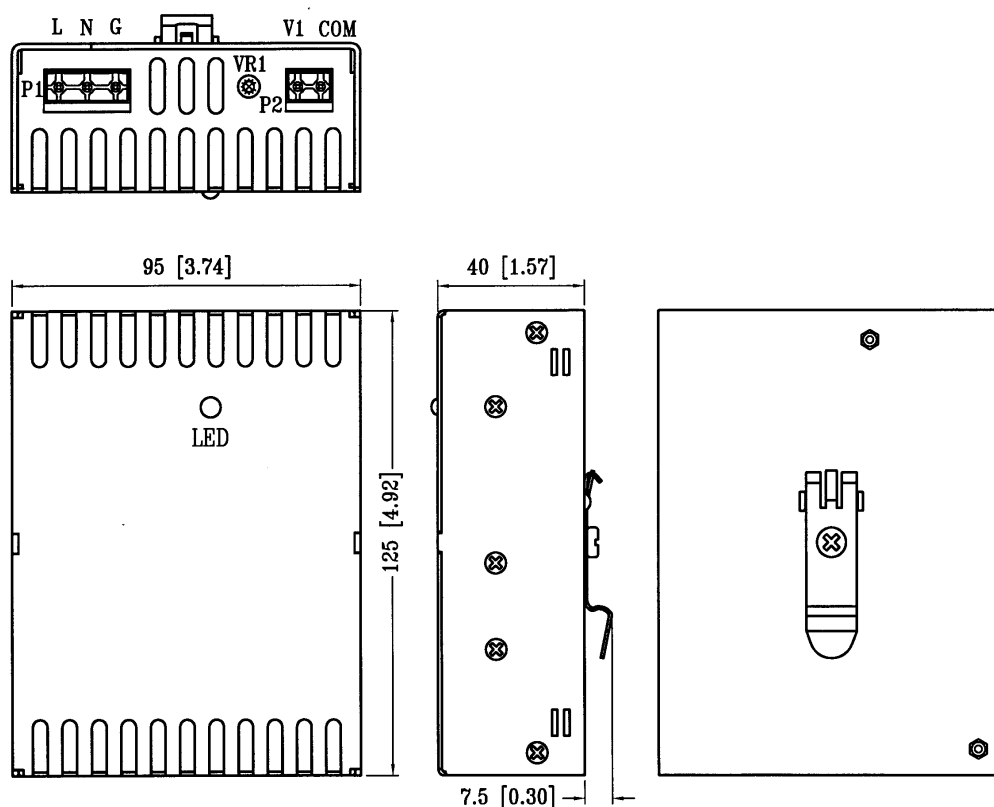
| MODEL NO.            | MAIN VO1 @★ |              |      |
|----------------------|-------------|--------------|------|
|                      | Typ.        | Volt         | Peak |
| <b>HID60-S120050</b> | 5.0A        | <b>12.0V</b> | 5.6A |
| <b>HID60-S240025</b> | 2.5A        | <b>24.0V</b> | 2.8A |
| <b>HID60-S480012</b> | 1.2A        | <b>48.0V</b> | 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     |
| <b>CONNECTOR &amp; PIN #</b> | 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.