

# HiTRON

## UNIVERSAL AC INPUT AC-DC INDUSTRIAL DIN-RAIL SINGLE OUTPUT 30 WATTS SWITCHING MODE POWER SUPPLIES HID35 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- MEET UNIVERSAL SAFETY STANDARD AND 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.  
**Input Connector:** M-T plug connector.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:**  $\leq 30.6A$  (rms) @230Vac.  
**Input Current:** 0.51A @115Vac, 0.28A @230Vac.  
**Dielectric Withstand:** Meet IEC 60950-1.  
**EMI:** Meet CISPR EN 55022 & FCC B.  
**No Load Operation:** No damage.  
**Hold-up Time:** 18.2ms @115Vac/ 69.6ms @230Vac.  
**Earth Leakage:** Less than 0.41mA @230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typ. 30W continuous.  
**Output Connector:** M-T plug connector.  
**Line Regulation:** Typ. 0.1%.  
**Load Regulation:** Vary with output voltage.  
 Typ.  $\pm 0.4\%$ .  
**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 115% max. load.  
 Consult the factory for special OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typ. 76%.  
**Switching Frequency:** Fixed freq. 56K Hz.  
**Circuit Topology:** Fixed frequency flyback circuit.  
**Transient Response:** Peak transient typ. 150mV, recovers in 50.6ms following a 50% load change.  
**Safety Standard:** IEC 60950-1/UL 60950-1 Class I.  
**Power Density:** 1.4 Watt/ 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  $T_a < +60^\circ C$ .  
 Moving air is request for  $T_a > +60^\circ C$  full load operation.  
**Construction format:** Enclosure metal box with DIN-clips format.  
**MTBF Demonstrated:** >380,000 hours at full load and 25°C ambient conditions.

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

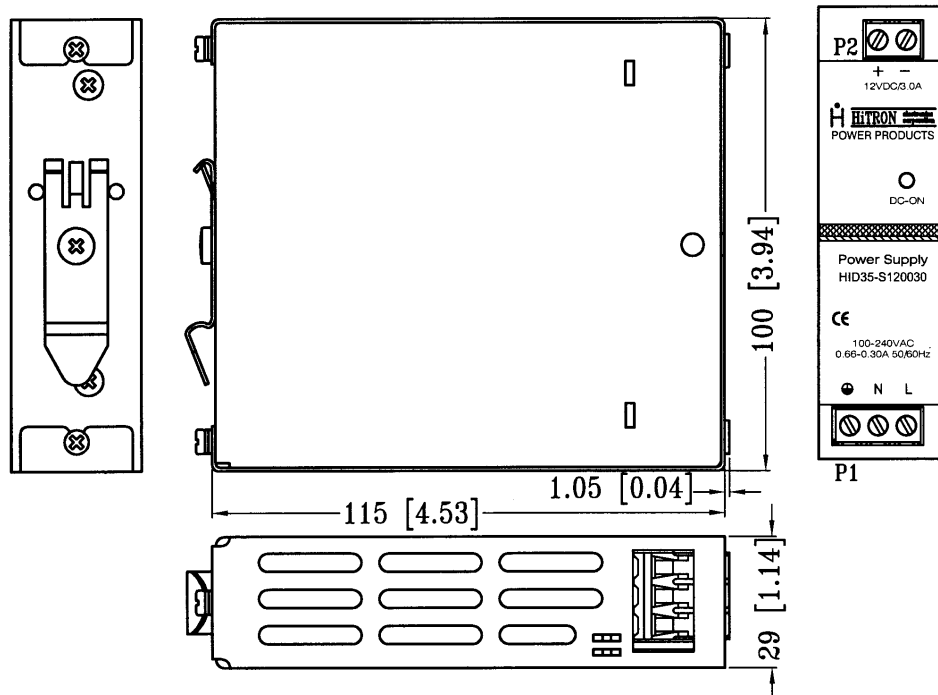
MODEL NO.	MAIN VO1 @ ★		
	Typ.	Volt.	Peak
HID35-S050060	6.0A	5.0V	6.0A
HID35-S120030	3.0A	12.0V	3.0A
HID35-S240012	1.2A	24.0V	1.4A
HID35-S480008	0.8A	48.0V	0.9A

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

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

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 370.0g(13.04 Oz.)**



### INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

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