

# HiTRON

## UNIVERSAL AC INPUT AC-DC INDUSTRIAL DIN-RAIL SINGLE OUTPUT 65 WATTS SWITCHING MODE POWER SUPPLIES HID65 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:** 21.1A @230Vac.  
**Input Current:** 0.96A @115Vac, 0.48A @230Vac.  
**Dielectric Withstand:** Meet IEC 60950-1.  
**EMI:** Meet CISPR EN 55022 & FCC B.  
**No Load Operation:** No damage.  
**Hold-up Time:** 13mS @115Vac/ 53.6mS @230Vac.  
**Earth Leakage:** Less than 0.24mA @230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typ. 65W continuous.  
**Output Connector:** M-T plug connector.  
**Line Regulation:** Typ. 0.4%.  
**Load Regulation:** Vary with output voltage.  
 Typ.  $\pm 1\%$ .  
**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 130% max. load.  
 Consult the factory for special OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typ. 79%.  
**Switching Frequency:** Fixed frq. 60K Hz.  
**Circuit Topology:** Fixed frequency flyback circuit.  
**Transient Response:** Peak transient typ. 93mV, recovers in 0.1mS following a 25% load change.  
**Safety Standard:** IEC 60950-1/UL 60950-1 Class I.  
**Power Density:** 2.0 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 Ta < +60°C.  
 Moving air is request for Ta > +60°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

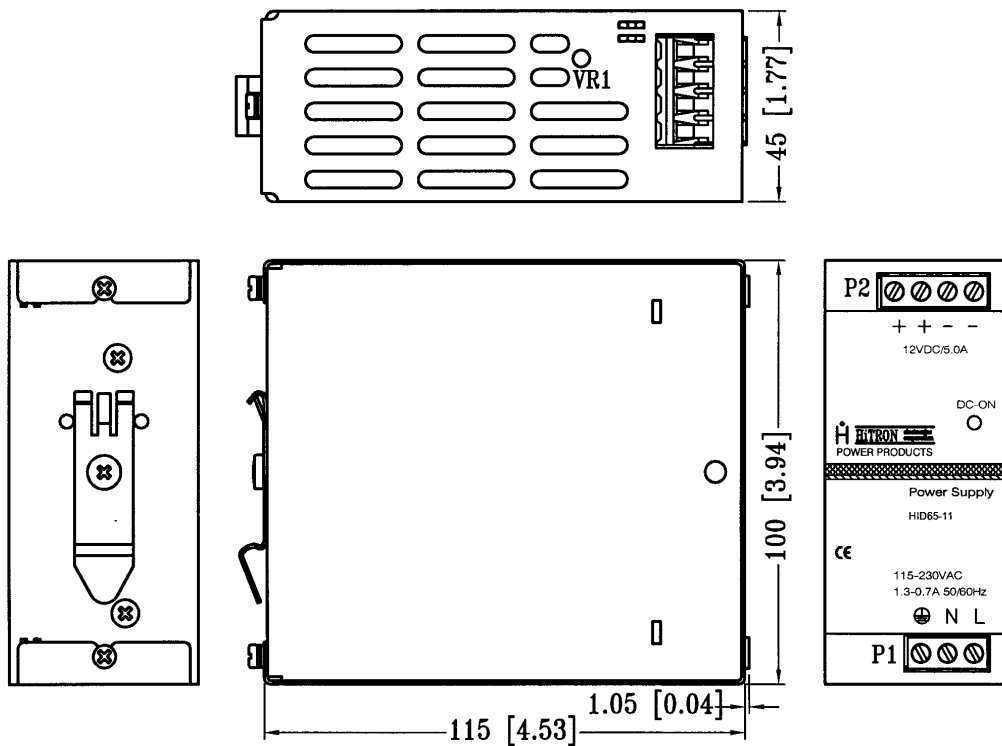
### SINGLE OUTPUT

MODEL NO.	MAIN VO1 @ ★		
	Typ.	Volt.	Peak
HID65-S120054	5.4A	12.0V	6.0A
HID65-S240027	2.7A	24.0V	3.0A
HID65-S480013	1.3A	48.0V	1.5A

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

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

**MECHANICAL DIMENSIONS: MM [INCHES]      WEIGHT: 460.0g(16.22 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