

# HiTRON

## UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC INDUSTRIAL DIN-RAIL SINGLE OUTPUT 60 WATTS SWITCHING MODE POWER SUPPLIES HPD65 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- MEET IEC 61000-3-2 HARMONIC CORRECTION
- MEET UNIVERSAL SAFETY STANDARDS AND INDUSTRIAL UL 508
- INDUSTRIAL POWER SUPPLIES FOR SNAP-ON MOUNTING ON DIN-RAILS
- EMI MEET EN 55022 CLASS B
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** Typ. 90-264Vac universal AC input.  
**Input Connector:** M-T plug connector.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** Typ. 15A @ 230Vac.  
**Input Current:** Typ. 0.7A @ 115Vac/0.38A @ 230Vac.  
**Dielectric Withstand:** Meet IEC 60950-1.  
**EMI:** Meet EN 55022/FCC Class B.  
**Power Factor Correction:** Meet Harmonic Correction per IEC 61000-3-2.PF typ.0.93-0.99  
**No Load Operation:** No damage.  
**Hold-up Time:** Typ. 60mS @ 115Vac & 230Vac.  
**Earth Leakage:** Less than 0.70mA @ 230VAC.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Charts.  
**Output Current:** See Ratings Charts.  
**Output Wattage:** Typ. 60W continuous.  
**Output Connector:** M-T plug connector.  
**Line Regulation:** Typ. 0.1%.  
**Load Regulation:** Typ.  $\pm$  1.0-1.5%  
**Noise & Ripple:** Typ. 1% peak to peak.  
**OVP:** Built-in.(Latch).  
**Adjustment:** Available.  
**LED Indicator:** Installed.  
**Overload Protection (OLP):**  
 Fully protected against output overload and short circuit.  
 Typically set at 135% max. load.  
 Consult the factory for special OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typ. 75-78%.  
**Switching Frequency:** Fixed frequency 65.7KHz.  
**Circuit Topology:** Fixed freq. forward circuit.  
**Transient Response:** Peak transient about 95mV and recovers within 12mS following 25% load change.  
**Safety Standard:** IEC 60950-1/UL 60950-1 Class I.  
**Power Density:** 2.76Watts /Cubic Inch.  
**Industrial Grade UL 508.**

**Operating Temperature:** -10 to +70°C.  
 Derating from +60 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 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

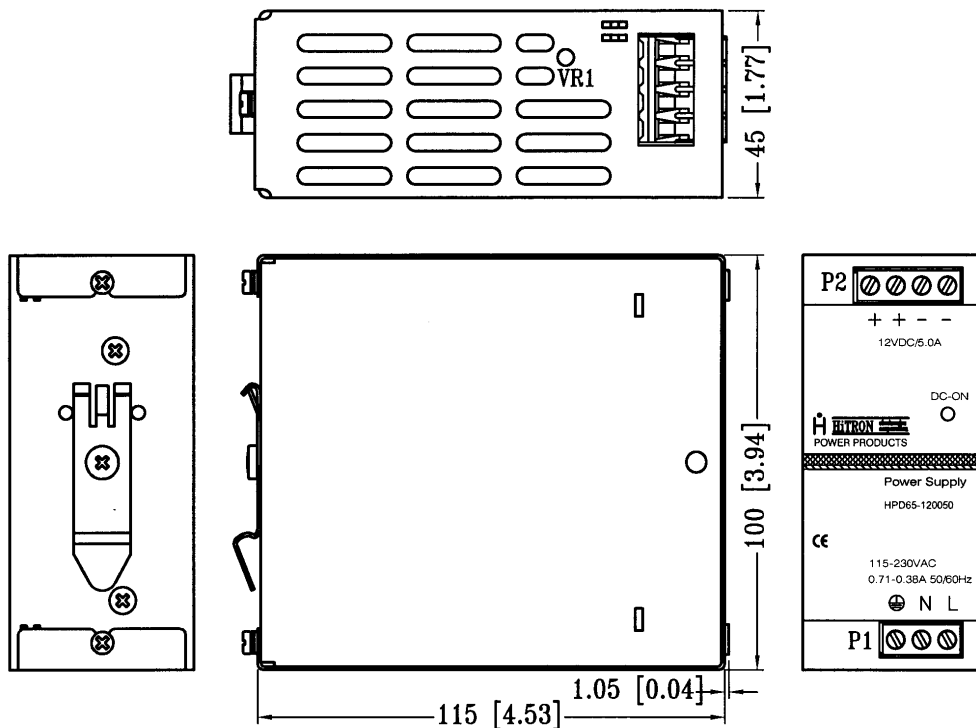
| MODEL NO.     | MAIN VO1 @★ |       |      |
|---------------|-------------|-------|------|
|               | Typ.        | Volt. | Peak |
| HPD65-S120050 | 5.0A        | 12.0V | 5.5A |
| HPD65-S240025 | 2.5A        | 24.0V | 2.8A |
| HPD65-S480012 | 1.2A        | 48.0V | 1.4A |

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

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

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 580.0g(20.46 Oz.)**



### INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

| ASSIGNMENT<br>CNTR & PIN # | AC INPUT |      |      | SINGLE OUTPUT |        |
|----------------------------|----------|------|------|---------------|--------|
|                            | AC-L     | AC-N | AC-G | VO1           | DC-COM |
|                            | P1-L     | P1-N | P1-G | P2-3,4        | P2-1,2 |