

### UNIVERSAL INPUT HARMONIC CORRECTION AC-DC SWITCHING POWER SUPPLIES SINGLE OUTPUT INDUSTRIAL DIN RAIL 150 WATTS APS150PD SERIES



#### FEATURES:

- ACCOMMODATES UNIVERSAL AC SOURCES IN THE WORLD
- MEETS IEC1000-3-2 HARMONIC CORRECTION
- DESIGNED TO MEET UNIVERSAL SAFETY STANDARDS AND INDUSTRIAL UL508
- SWITCHING MODE INDUSTRIAL POWER SUPPLIES FOR SNAP-ON MOUNTING ON DIN-RAILS
- EMI MEET CISPR PUB.22 / FCC CLASS B
- CE MARKING COMPLIANCE

#### SPECIFICATIONS

##### INPUT SPECIFICATION:

**Input Voltage:** Typ. 90-264Vac  
**Input Connector:** Phoenix GMSTBA2.5/3-G-7.62  
**Input Frequency:** 47-63Hz  
**Inrush Current:** 35A peak @ 230Vac  
**Input Current:** 1.6A @ 115Vac, 0.8A @ 230Vac  
**Dielectric Withstand:** Meet IEC950  
     3,000Vac-Output/Input  
     2,000Vac-Input/GND  
     1,000Vac-Output/GND  
**EMI:** Meet CISPR EN55022 & FCC B  
**Power Factor Correction:** Meet Harmonic Correction per IEC1000-3-2  
**Remote Inhibit:** Optional  
**No Load Operation:** No damage  
**Hold-up Time:** 30mS @ 115Vac, 30mS @ 230Vac  
**Earth Leakage:** Less than 0.40mA @ 230Vac

##### OUTPUT SPECIFICATIONS:

**Output Voltage:** See Ratings Chart  
**Output Current:** See Ratings Chart  
**Output Connector:** Phoenix MSTBA2.5/2-G-5.08  
**Line Regulation:** Typical  $\pm 0.1\%$   
**Load Regulation:** Typical  $\pm 1.0\%$   
**Noise & Ripple:** Typ. 1.0% peak to peak max.  
**OVP:** Option for Built-in  
**Remote Sense:** Optional  
**Adj.:** From -10% of main output till OVP  
**Overload Protection:** Set from 115-130% of max. power Fully protected against output overload and short circuit  
**Load Sharing:** Optional (Adjustable)  
**LED Indicator:** Output indicating

##### GENERAL SPECIFICATIONS:

**Efficiency:** Typical 83%  
**Switching Frequency:** Fixed frequency 88-92KHz  
**Circuit Topology:** Fixed freq. forward circuit  
**Transient Response:** Output voltage returns in less than 3mS following a 50% load change  
**Safety Standard:** IEC950/UL1950 Class I  
**Power Density:** 2.4Watts / Cubic Inch  
**Operating Temperature:** -25 to 50°C at full load, 50 to 70°C by de-rating 2% per °C  
**Storage Temperature:** -25 to +85°C  
**Temperature Coefficient:** 0.03% per °C  
**Cooling:** 30 CFM airflow is required to deliver the full power over 50°C  
**Construction format:** Enclosure metal box format  
**Industrial Grade meets UL 508**

# OUTPUT VOLTAGE/ CURRENT RATINGS CHART

## SINGLE OUTPUT:

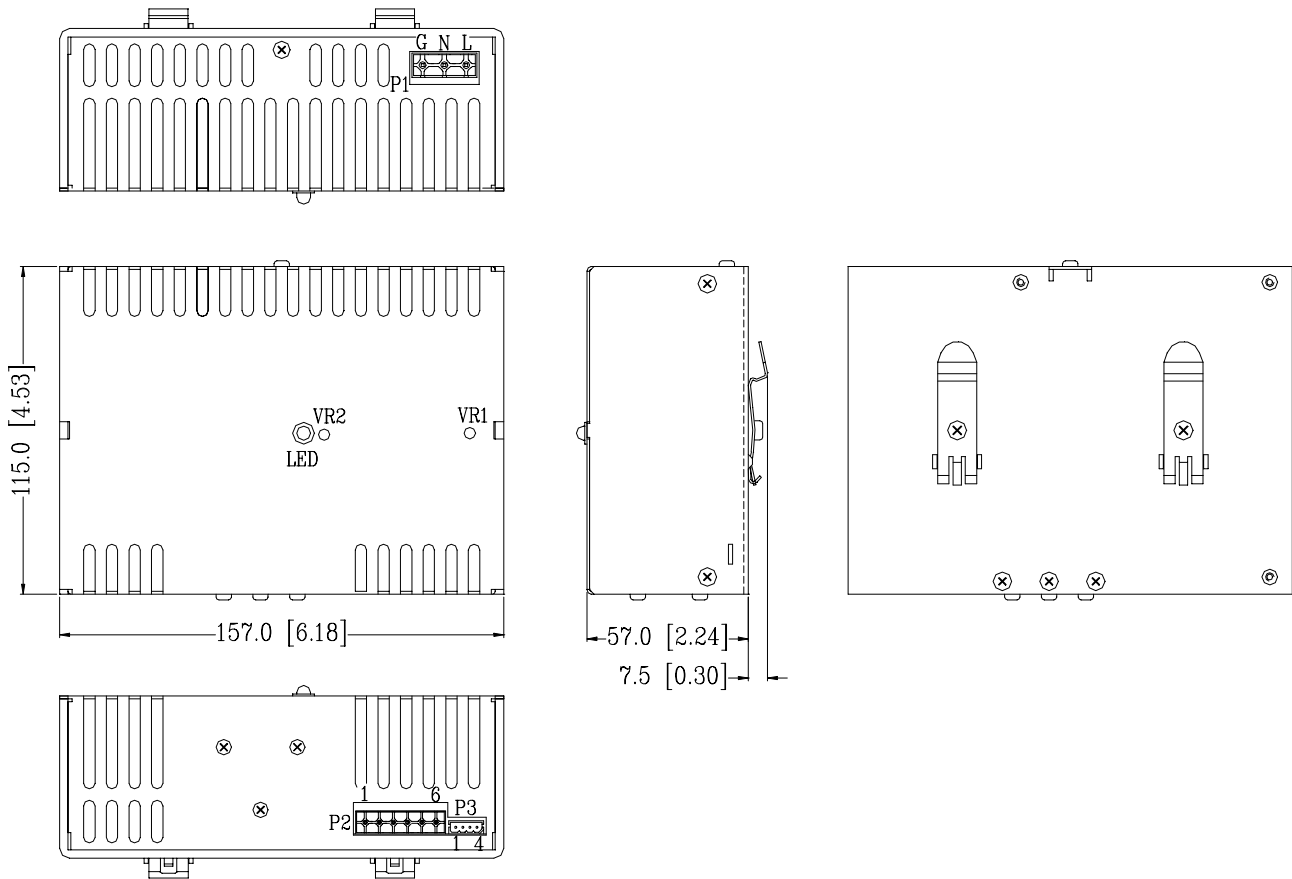
MODEL NO.	MAIN O/P VO1 @ ★ = #		
	TYP.	VOLT.	PEAK
<b>APS150PD-12125</b>	12.5A	<b>12.0V</b>	15.0A
<b>APS150PD-24065</b>	6.5A	<b>24.0V</b>	7.5A
<b>APS150PD-48034</b>	3.4A	<b>48.0V</b>	4.0A

Symbols: " = " Active circuit current sharing. " ★ " OVP built-in.  
 " # " Remote sensing. " @ " Adjustable.

Remark: (1) At least 20% of typical main output current is required to maintain stated regulation.  
 (2) Peak output, less than 60sec., peak current can't be drawn from all output at the same time.

## MECHANICAL DIMENSIONS: MM [INCHES]

**WEIGHT: 1.13Kg (39.85 Oz.)**



## INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT CNTR & PIN #	AC INPUT			SINGLE OUTPUT		ASSORTED SIGNAL			
	AC-L	AC-N	AC-G	VO1	DC-COM	-SENSING	+SENSING	INHIBIT	C/S =
	P1-1	P1-2	P1-3	P2-4,5,6	P2-1,2,3	P3-1	P3-2	P3-3	P3-4