

APS

Advanced Power Solutions

UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC SINGLE OUTPUT 100 WATTS INDUSTRIAL DIN RAIL SWITCHING POWER SUPPLIES APS100PD SERIES



FEATURES:

- ACCOMMODATES UNIVERSAL AC INPUT
- MEETS IEC1000-3-2 HARMONIC CORRECTION
- MEETS UNIVERSAL SAFETY STANDARDS AND INDUSTRIAL UL508
- INDUSTRIAL POWER SUPPLIES FOR SNAP-ON MOUNTING ON DIN-RAILS
- EMI MEETS EN 55022 CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac universal AC input
Input Connector: Phoenix GMSTBA2.5/3-G-7.62
Input Frequency: 47-63 Hz
Inrush Current: Typ. 25A @230Vac
Input Current: 1.1A @115Vac/ 0.55A @230Vac
Dielectric Withstand: Meets IEC950
EMI: Meet EN55022/FCC Class B
Power Factor Correction: Meets Harmonic Correction per IEC1000-3-2. PF typ. 0.96-0.98
No Load Operation: No damage
Hold-up Time: Typ. 46mS @115Vac & 230Vac
Earth Leakage: Less than 0.70mA @ 230Vac

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Wattage: Typ. 100W continuous
Output Connector: Phoenix MSTBA2.5/4-G-5.08
Line Regulation: Typ. 0.1%
Load Regulation: Typ. ± 1.0 -1.5% typical
Noise & Ripple: Typ. 1.0% peak to peak
OVP: Option for Built-in
Remote Sense: Option
Adjustment: Available
Overload Protection (OLP): Fully protected against output overload and short circuit
 Consult the factory for OLP setting
LED Indicator: Installed

GENERAL SPECIFICATION

Efficiency: Typ. 82%
Switching Frequency: Fixed freq. 66.6KHz
Circuit Topology: Fixed frequency forward circuit
Transient Response: Output voltage returns in less than 3mS following a 25% load change
Safety Standard: IEC950/UL1950 Class I
Power Density: 2.76 Watt / Cubic inch
Industrial Grade UL 508

Operating Temperature: -10 to +70°C at full load
 (> +60°C: by de-rating 2% / °C)
Storage Temperature: -25 to +85°C
Temperature Coefficient: 0.03% / °C
Cooling: Free air convection cooling for Temp. < +60°C
 Moving air is request for Temp. > +60°C full load operation
Construction format: Enclosure metal box format with DIN-clips

Note: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.

(2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load is varied from half load to full load (unit $\pm\%$).

OUTPUT VOLTAGE/CURRENT RATINGS CHART

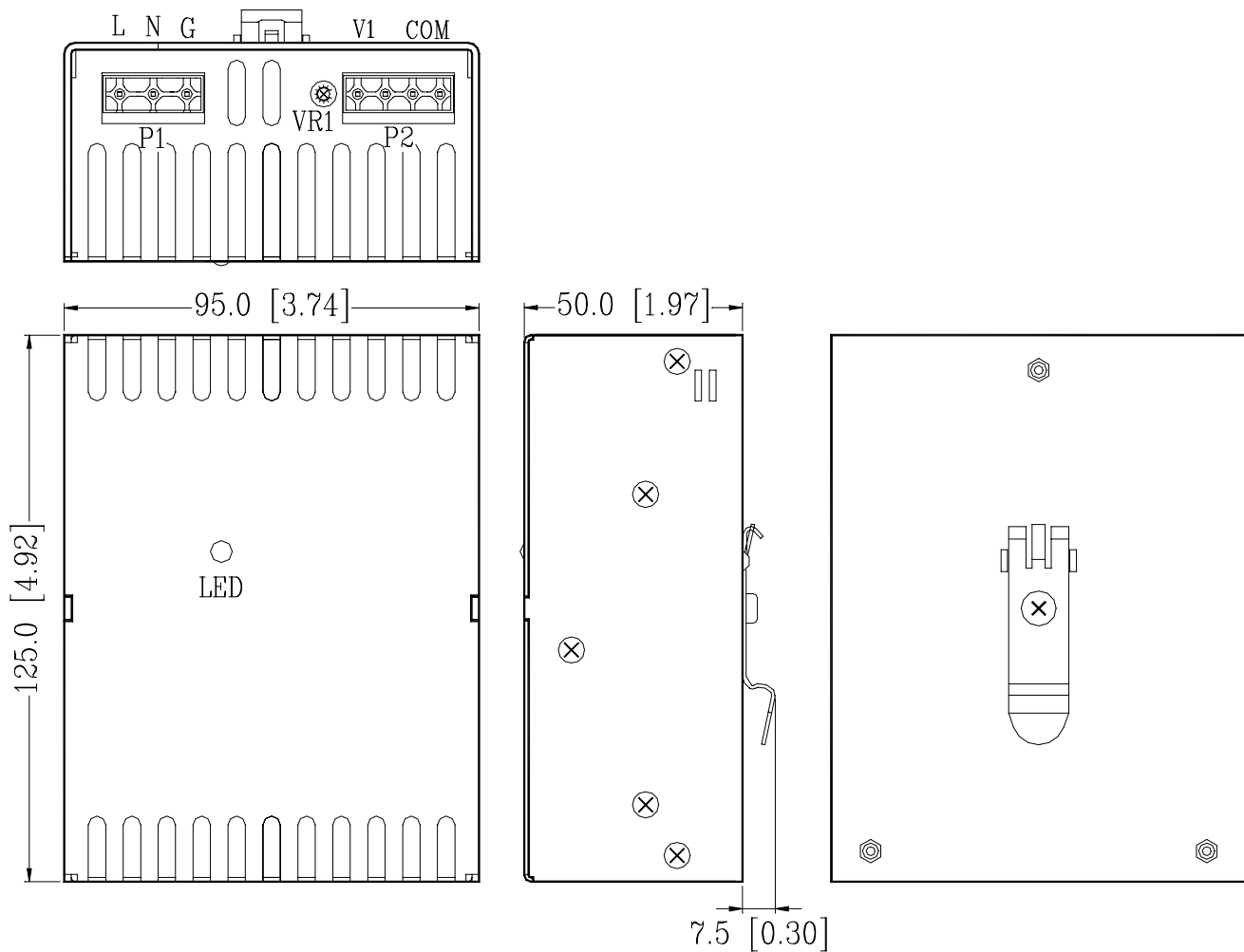
SINGLE OUTPUT

| MODEL NO. | MAIN O/P @ (•)(#) | |
|------------------|-------------------|-------|
| | Typ. | Volt. |
| APS100PD-S120083 | 8.3A | 12.0V |
| APS100PD-S240042 | 4.2A | 24.0V |
| APS100PD-S480022 | 2.2A | 48.0V |

Symbol: "@" Adjustable. "(•)" OVP for option.
 "(#)" Remote sensing for option.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 0.67kg (23.5 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENTS

| ASSIGNMENT CONNECTOR & PIN # | AC INPUT | | | SINGLE OUTPUT | |
|---------------------------------|----------|-------|-------|---------------|----------|
| | AC-L | AC-N | AC-G | VO1 | DC-COM |
| | P1-3. | P1-2. | P1-1. | P2-3, 4. | P2-1, 2. |

Mating connector: P1: Phoenix GMSTB2.5/3-ST-7.62

P2: Phoenix MSTB2.5/4-ST-5.08