

APS

Advanced Power Solutions

UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC TRIPLE OUTPUT 300 WATTS 19" COMPATIBLE EUROCARD SWITCHING POWER SUPPLIES APS300PU SERIES



FEATURES:

- ACCOMMODATES UNIVERSAL AC SOURCES
- MEETS IEC1000-3-2 HARMONIC CORRECTION
- DUAL CONVERTER ARCHITECTURE
- MEETS UNIVERSAL SAFETY STANDARDS
- 19" COMPATIBLE EUROCARD FORMAT
- EMI MEETS EN 55022/FCC CLASS B
- CE MARKING COMPLIANCE
- 12HP x 6U x 160mm FOR STANDARD VMEbus

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac with PFC
Input Connector: DIN 41612 at rear
Input Frequency: 47-63Hz
Inrush Current: 32.5A peak @ 230Vac(active)
Input Current: 3.7A @ 115Vac, 1.85A @ 230Vac.
Dielectric Withstand: Meet IEC950
EMI: Meet EN 55022 B & FCC B
Power Factor Correction: Meet Harmonic Correction
 IEC1000-3-2 .PF typ.0.97-0.98
Power Indicator: Green LED
Power OK Signal: Installed
Logic Inhibit: Installed
Hold-up Time: 46mS @ 115Vac & 230Vac
Earth Leakage: Less than 0.60mA @ 230Vac

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Connector: DIN 41612 at rear
Line Regulation: Typ. 0.1%
Load Regulation: Main VO1: Typ. $\pm 3.0\%$
 Main VO2: Typ. $\pm 3.0\%$
 Aux. VO3: Typ. $\pm 5.0\%$ (Common Choke)
Noise & Ripple: Typ. 1% peak to peak
OVP: Built-in at 2 main output VO1 & VO2
Adjustability: Available at VO1 & VO2 rails
Overload Protection (OLP): Fully protected against
 output overload and short circuit
 Consult the factory for OLP setting

GENERAL SPECIFICATION

Efficiency: Typ. 76 to 78%
Switching Frequency: Fixed frequency 93KHz
Circuit Topology: Dual converter architecture
 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: 2.16 Watts / Cubic Inch
Operating Temperature: 0 to +50°C full load &
 +50 to +70°C by de-rating 2%/°C
Storage Temperature: -25°C to +85°C
Temperature Coefficient: Typ. 0.03% / °C
Cooling: At least 45 CFM moving air is required
 for full load at +50°C
Construction format: Enclosure metal Eurocard
 VMEbus format

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

(2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load varied from half load to full load (unit $\pm\%$). For the multi-output, the main output remains 50% load and other aux. output remains 20% load.

OUTPUT VOLTAGE/ CURRENT RATINGS CHART

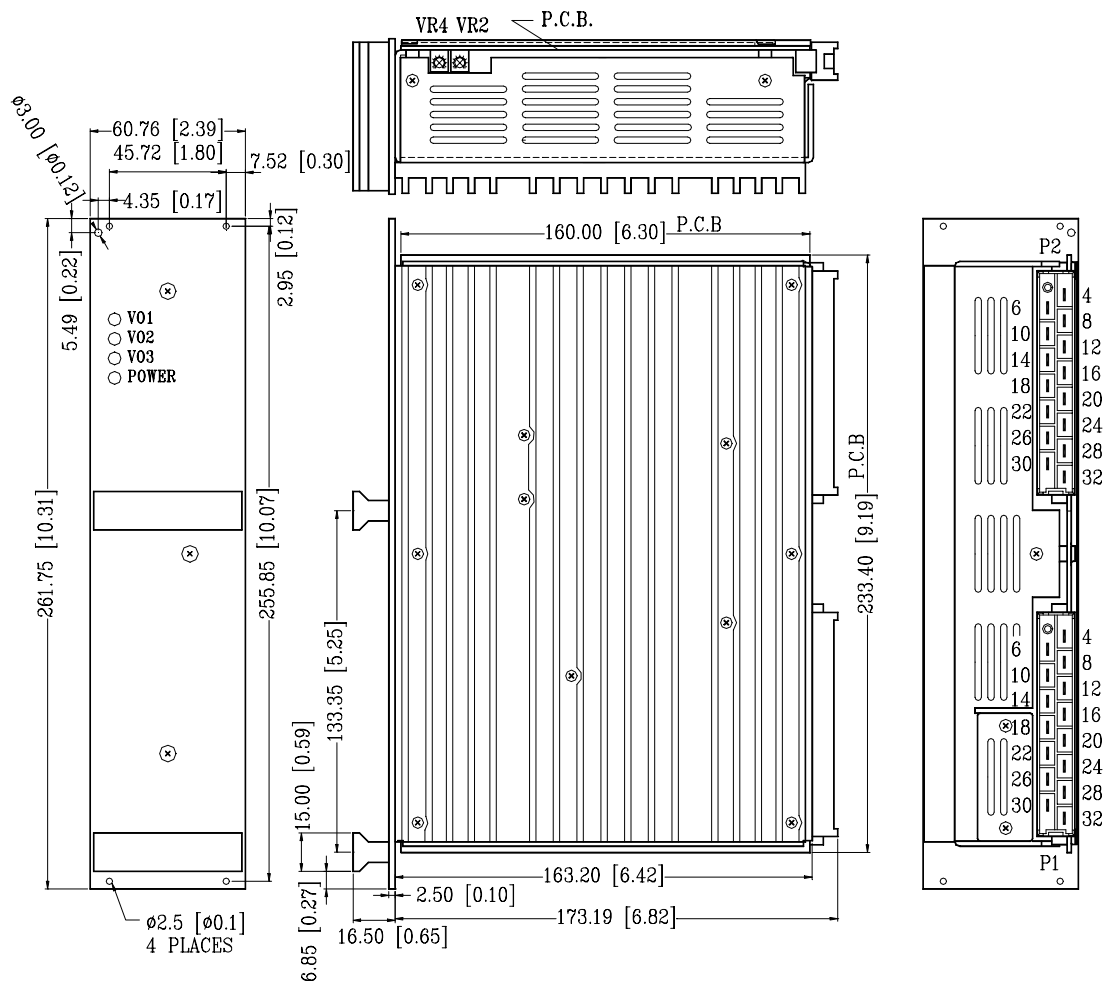
TRIPLE OUTPUT

MODEL NO.	MAIN +VO1 ★@#		MAIN +VO2 @★■		AUX. -VO3 ■	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
APS300PU-T050IE (APS300PU-30)	40.0A	+5.0V	5.0A	+12.0V	5.0A	-5.0V
APS300PU-T050II (APS300PU-32)	40.0A	+5.0V	5.0A	+12.0V	5.0A	-12.0V
APS300PU-T050KK	40.0A	+5.0V	5.0A	+15.0V	5.0A	-15.0V
APS300PU-T050DE	40.0A	+5.0V	5.0A	+3.3V	5.0A	-5.0V
APS300PU-T033EE	40.0A	+3.3V	5.0A	+5.0V	5.0A	-5.0V
APS300PU-T033KK	40.0A	+3.3V	5.0A	+15.0V	5.0A	-15.0V
APS300PU-T033II	40.0A	+3.3V	5.0A	+12.0V	5.0A	-12.0V

Symbol: "★"OV P built-in. "@"Adjustable. "#" Remote sensing. "■" Couple filter inductor.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 2,367g(5Lb. 3.5Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENTS

ASSIGNMENT	AC INPUT			STATUS / CONTROL			TRIPLE OUTPUT					DC COM
	L	N	G	Inh.	Pwr.OK	Reset	VO1	+S	-S	+VO2	-VO3	
CONNECTOR & PIN#	P1-28	P1-30	P1-32	P1-8	P1-4	P1-6	P2-4,6,8,10,12	P2-14	P2-32	P2-28,30	P2-16	P2-18,20,22,24,26

Mating connector: DIN 41612-H15 Female.