

UNIVERSAL INPUT HARMONIC CORRECTION AC-DC TRIPLE OUTPUT N+1 REDUNDANCY AND CURRENT SHARING 350 WATTS INTERNAL SWITCHING POWER SUPPLIES WITH FAN INSIDE APS348VP SERIES



FEATURES:

- ACCOMMODATES UNIVERSAL AC SOURCES
- NO MINIMUM LOAD REQUIREMENT
- MEET IEC1000-3-2 HARMONIC CORRECTION
- N+1 REDUNDANCY & OR-ING DIODES
- THIRD-WIRE CURRENT SHARING
- MEETS UNIVERSAL SAFETY STANDARDS
- EMI MEETS EN55022 CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Universal 90-264Vac with PFC
Input Connector: Molex Mini-Fit (F-M) 42404-06A1
Input Frequency: 47-63Hz
Inrush Current: Typ. 25A @230Vac(Active circuit)
Input Current: Typ. 5.4A @ 115Vac, 1.7A@ 230Vac
Dielectric Withstand: Meets IEC950.
EMI: Meets CISPR EN55022 Class B
Hold-up Time: Typ. 38ms @ 115Vac & 230Vac
Power Fail Signal: Indicated by LEDs
Power Factor Correction & Harmonic Correction:
 Meets IEC1000-3-2, PF typ. 0.97-0.98 @ full load
Remote Inhibit/Power Disable: Installed
Earth Leakage: Less than 0.85 mA
Overload Protection (OLP): Fully protected against
 output overload and short circuit
 Consult the factory for OLP setting

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Connector: Molex Mini-Fit (F-M) 42404-24A1
Output Wattage: Typ. 350 Watts
Line Regulation: Typ. 0.1%
Load Regulation: Independent & fully regulated Magnetic
 Amplifier outputs. VO1/VO2/VO3 typ. ±1.0%
Noise & Ripple: Typ. 1% peak to peak
OVP: Available at VO1, VO2 & VO3 (Latch circuit)
Redundancy: Available for N+1 redundancy & OR-ing
 diodes built-in at all rails
Current Sharing: Third-wire load sharing at VO1,2,3
Adjustability: Available at VO1,VO2 & VO3
Over Current Protection (OCP): Installed in output
 VO1,VO2 and VO3
Over Temp. Protection (OTP): By thermostat

GENERAL SPECIFICATION

Efficiency: Typ. 75-78.0%
Switching Frequency: 60K Hz
Circuit Topology: PWM fixed-frequency forward circuit
Transient Response: Output voltage returns in less than
 3ms following a 25% load change
Safety Standard: UL1950/EN60950 Class I
Power Density: 2.8Watts / Cubic Inch

Operating Temperature: 0 to +50°C
Storage Temperature: -20 to +85°C
Temperature Coefficient: 0.04%/°C
Cooling: Internal cooling fan installed
Construction: Enclosure box installed with internal
 cooling fan
Hot Swappable (Insertion): Installed



OUTPUT VOLTAGE/CURRENT RATINGS CHART

06/18/2001

TRIPLE OUTPUT

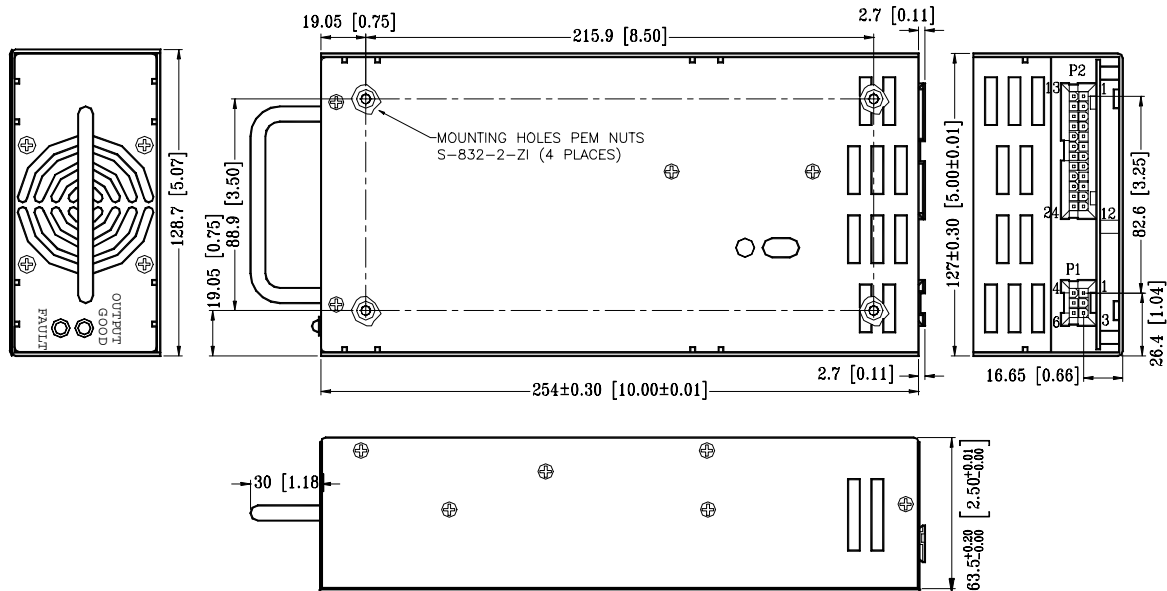
MODEL NO.	+VO1 ▲@●=●		+VO2 ▲@●=●		+VO3 ▲@●=●	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
APS348VPT-050DI	30.0A	+5.0V	23.0A	+3.3V	6.0A	+12.0V
APS348VPT-033EI	30.0A	+3.3V	25.0A	+5.0V	6.0A	+12.0V
APS348VPT-050II	30.0A	+5.0V	10.0A	+12.0V	6.0A	+12.0V
APS348VPT-033II	30.0A	+3.3V	10.0A	+12.0V	6.0A	+12.0V
APS348VPT-050MI	30.0A	+5.0V	5.0A	+24.0V	6.0A	+12.0V
APS348VPT-240IE	7.0A	+24.0V	10.0A	+12.0V	14.0A	+5.0V

Symbol: "●" OVP built-in. "@@●" Adjustable. "=●" 3rd-wire current sharing. "▲" Installed with magnetic amplifier.

"●" Installed with OR-ing diode.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 1,200.0g (42.3 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			TRIPLE OUTPUT				ASSORTED SIGNALS						
	AC-L	AC-N	AC-G	VO1	VO2	VO3	DC-COM	VO1=	VO2=	VO3=	Fan Fail	Inhibit	Power Good	Power Disable
CONNECTOR & PIN#	P1-1	P1-5	P1-3	P2-1,13,14	P2-7,19,20	P2-8,9,21	P2-2,3,4,5,15,16,17,18	P2-22	P2-10	P2-23	P2-11	P2-24	P2-12	P2-6

Mating connector: Molex Mini-Fit 42385-06A1.
Molex Mini-Fit 42358-24A1.