

UNIVERSAL INPUT HARMONIC CORRECTION AC TO DC SINGLE & DUAL OUTPUT INTERNAL SWITCHING POWER SUPPLIES 150 WATTS APS150VP SERIES



FEATURES:

- ACCOMMODATES UNIVERSAL AC SOURCES
- MEETS IEC1000-3-2 HARMONIC CORRECTION
- DESIGNED TO MEET UNIVERSAL SAFETY STANDARDS
- EMI/RFI MEET CISPR PUB.22 CLASS B
- CE MARKING COMPLIANCE

SPECIFICATIONS

INPUT SPECIFICATIONS:

Input Voltage: Typ. 85-265VAC

Input Connector:

AMP 643495-2or MOLEX 5273-5A connector

Input Frequency: 47-63Hz

(Consult factory for 440Hz. operation)

Inrush Current : Max. 20A @ 230VAC by active in-rush current circuit

Input Current: 2.3 ~ 0.76A within AC inputs

Dielectric Withstand: Meets IEC950

3,000VAC-Output/Input

1,500VAC-Input/GND

500VAC-Output/GND

EMI/RFI: Meets CISPR PUB.22 class B

Hold-up Time: 30ms @ 115VAC

Power Fail Signal: Optional

Power Factor Correction:

Meets Harmonic Correction per IEC1000-3-2

Earth Leakage: Less than 500mA

OUTPUTS SPECIFICATIONS:

Output Voltage: See RATINGS CHARTS

Output Currents: See RATINGS CHARTS

Output Connector: AMP1-640445-0 & 640456-2 or MOLEX 5273-10A & 6410-2A

Centering: Initial setting on all auxiliary

Outputs 50% typical load

±5% typical ±2% optional

Line Regulation: Main VO1 ±0.1% typical

Aux.VO2 ±0.5%

Load Regulation: VO1 10% min. load required.

Main O/P VO1 ±1% typical

Aux. O/P VO2 ±5 % typ. stacked on VO1

Noise & Ripple: Typ.1% peak to peak

OVP: Main O/P only set @ 124% ±8% VO1

Remote Sense: Option

Adjustability: VO1 O/P, from -10% to OVP

Overload Protection: If output power over 130 %, OLP reduces all output voltages to a safe dissipation level & protects against short circuit on all O/P.

GENERAL SPECIFICATIONS:

Efficiency: Typ. 76%

Switching Frequency: Fixed freq. at 75KHz.

Circuit Topology:

PWM fixed-frequency forward circuit

Transient Response: Output voltage returns in less than 3ms following a 50load change

Safety Standard:UL1950/EN60950 class I

Construction: L-bracket construction format

Operating Temperature: 0-45°C convection cooling

If with 20CFM Fan cooling 0-70°C

Stroge Temperature: -20 to +85°C

Temperature Coefficient: 0.04 per °C

Cooling: Recommended 25 CFM fan cooling.

Long Term Stability: After 20 minutes

warm-up, 0.1% for 8 hours

Industrial Grade

OUTPUT VOLTAGE/CURRENT RATING CHARTS

SINGLE OUTPUT

MODEL NO.	MAIN VO1 O/P @ ★ # TYP.A VOLT. PEAK A		
APS150VP-10	28.0A	5V	30.0A
APS150VP-11	12.0A	12V	12.5A
APS150VP-12	9.6A	15V	10.0A
APS150VP-13	6.0A	24V	6.25A
APS150VP-14	5.2A	28V	5.4A
APS150VP-15	4.0A	36V	4.2A
APS150VP-16	4.5A	32V	4.7A
APS150VP-17	3.0A	48V	3.2A

DUAL OUTPUT

MODEL NO.	MAIN VO1 O/P @ ★ Typ. Amp Volt Peak Amp			AUX. VO2 O/P † Typ. Amp Volt Peak Amp		
APS150VP-20	25.0A	+5V	26.0A	2.0A	+5V	2.5A
APS150VP-21	24.0A	+5V	25.0A	2.0A	+12V	2.5A
APS150VP-22	24.0A	+5V	25.0A	1.6A	+15V	2.0A
APS150VP-23	24.0A	+5V	25.0A	1.0A	+24V	1.2A

Symbols: "★" OVP built-in. "@"Adjustable. "†"Stack on main output
 "#" Remote sensing. "▲" Installed with magnetic amplifier.

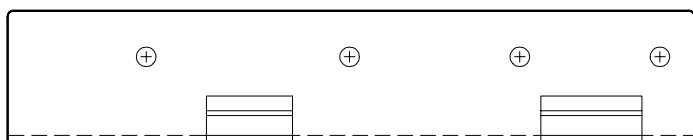
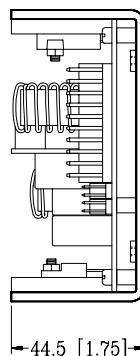
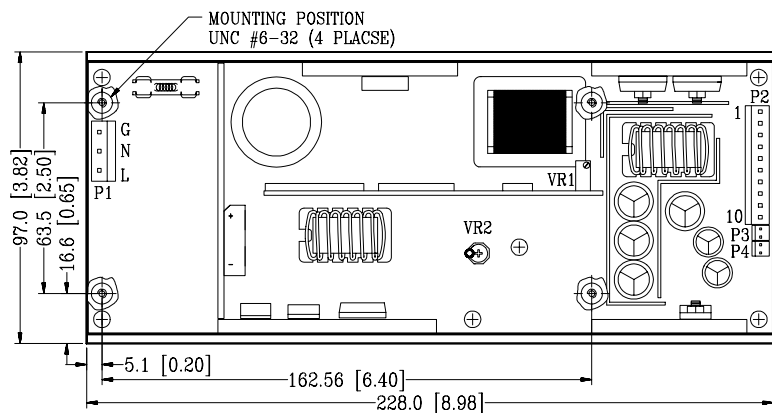
Remark: (1) At least 20% of typical main output loading is required to maintain stated regulations
 (2) Peak output, less than 60sec. With 5% duty cycle Peak current can't be drawn from all output at the same time.

MECHANICAL DIMENSIONS: MM(INCHES)

POWER DENSITY: 2.50W/Cubic Inch.

WEIGHT: 942g (33.2 Oz)

L-Bracket construction



PIN ASSIGNMENTS

PIN #	APS150VP-1X	APS150VP-2X
P1-1	AC-LINE	AC-LINE
P1-2	AC-NEUTRAL	AC-NEUTRAL
P1-3	AC-GROUND	AC-GROUND
P2-1	-	+VO2
P2-2	+VO1	DC COM.
P2-3	DC COM.	DC COM.
P2-4	DC COM.	DC COM.
P2-5	DC COM.	DC COM.
P2-6	DC COM.	DC COM.
P2-7	+VO1	+VO1
P2-8	+VO1	+VO1
P2-9	+VO1	+VO1
P2-10	+VO1	+VO1
P3-1.	DC COM.	DC COM.
P3-2	POWER FAIL	POWER FAIL (ACTIVE LOW).
P4-1	VO1 sense+	VO1 sense+
P4-2	VO1 sense-	VO1 sense-

MATING CONNECTOR

P1:AMP 640426-5 or MOLEX 5239-5A
 P2:AMP 1-640427-0 or MOLEX 5239-10A
 5195-10A
 P3 & P4:AMP 640440-2 or MOLEX 2695-2A