

APS

Advanced Power Solutions

UNIVERSAL INPUT AC TO DC PCB OPEN FRAME TRIPLE OUTPUT 6-8 WATTS INTERNAL SWITCHING POWER SUPPLIES APS06VI SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- COMPACT PCB OPEN FRAME FORMAT
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 & FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Range Typ. 90-264Vac.
Rating 100 to 240Vac.

Input Connector: Molex 5045 (vertical).

Input Frequency: 47-63Hz.

Inrush Current: $\leq 30.6A$ @230Vac.

Input Current: Typ.0.16A @115Vac/0.08A @ 230Vac.

Dielectric Withstand: Meet IEC950.

EMI: Meet CISPR PUB.22/ FCC Class B.

Hold-up Time: Typ. 20mS @115Vac/ 40mS @230Vac.

Earth leakage: Typ. 0.2mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.

Output Current: See Ratings Chart.

Output Wattage: Typ. 6-8 watts.

Output Connector: Molex 5045V (vertical).

Line Regulation: Typ. 0.1%.

Load Regulation: Main VO1 typ. $\pm 1-2.0\%$.
Aux. VO2 & VO3 typ. $\pm 2\%$ (P.R.).

Noise & Ripple: Typ. 1.0% peak to peak.

OVP: Built-in at all output VO1, VO2 & VO3.

Adjustability: Available at main output VO1.

Overload Protection (OLP): Fully protected against output overload and short circuit.
Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 65%.

Switching Frequency: Typ. 55K Hz at 115Vac.

Circuit Topology: Free Running Flyback Circuit.

Transient Response: Output voltage returns in less than 3mS following a 25% load change.

Safety standard: IEC950/UL1950 Class II.

Operating Temperature: 0 to +50°C.

Storage Temperature: -20 to +85°C.

Temperature Coefficient: Typ. 0.04% /°C.

Cooling: Free air convection.

Construction: PCB open frame format.

Power Density: 0.85 Watts / Cubic Inch.



In application

OUTPUT VOLTAGE/CURRENT RATINGS CHART

TRIPLE OUTPUT

MODEL NO.	MAIN VO1@•			AUX. +VO2 ••			AUX. -VO3 ••		
	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.	Max.
APS06VIT-050CC	1.0A	+5.0V	2.0A	0.1A	+2.5V	1.0A	0.1A	-2.5V	1.0A
APS06VIT-033CC	1.5A	+3.3V	2.5A	0.1A	+2.5V	1.0A	0.1A	-2.5V	1.0A
APS06VIT-050II	1.0A	+5.0V	2.0A	0.2A	+12.0V	1.0A	0.1A	-12.0V	1.0A
APS06VIT-033II	1.5A	+3.3V	2.5A	0.2A	+12.0V	1.0A	0.1A	-12.0V	1.0A
APS06VIT-050DD	1.0A	+5.0V	2.0A	0.1A	+3.3V	1.0A	0.3A	-3.3V	1.0A

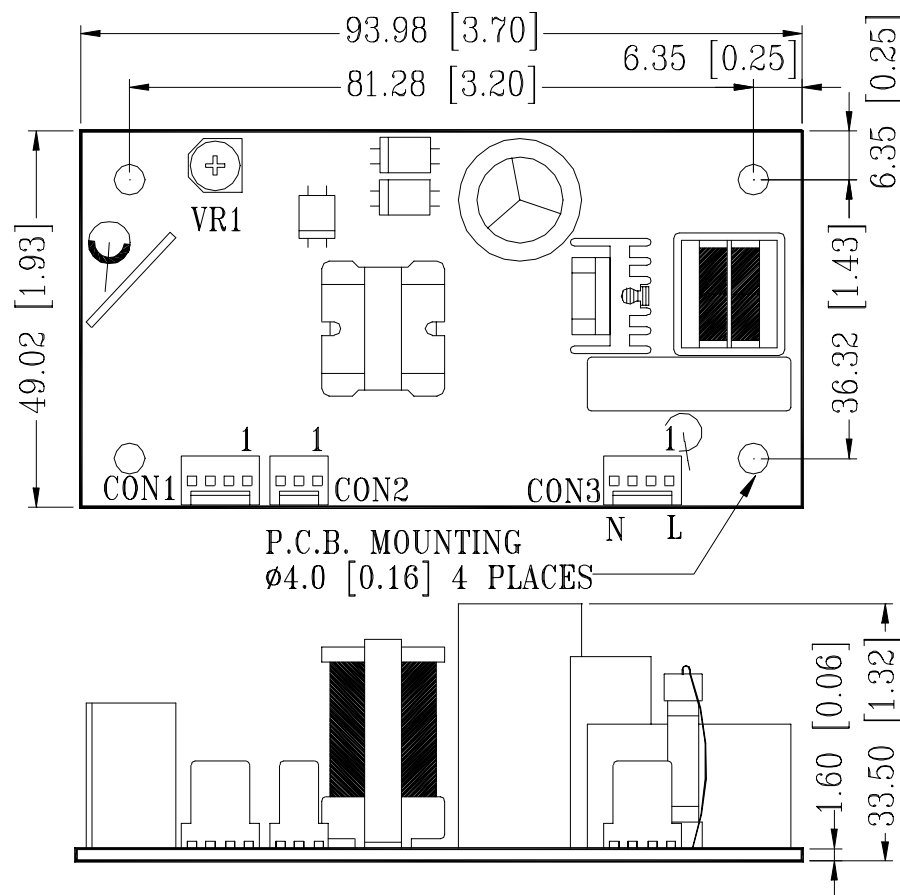
Symbol: "•" OVP built-in. "@" Adjustable. "••" Installed with Post Regulator (P.R.).

Remark (1) At least 20% of typical main output current is required to maintain stated regulations.

(2) Max. current can't be drawn from all output at the same time.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 75.0g (2.65 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT		TRIPLE OUTPUT				DC COM
	AC-LINE	AC-NEUTRAL	VO1	VO2	VO3	RETURN	
CNTR & PIN#	CON3-1 (L).	CON3-4 (N).	CON1-1, 4.	CON2-3.	CON2-1.	CON2-2.	CON1-2, 3.

Mating connector: Molex 5264-N/ JST XHP-8 or equivalent