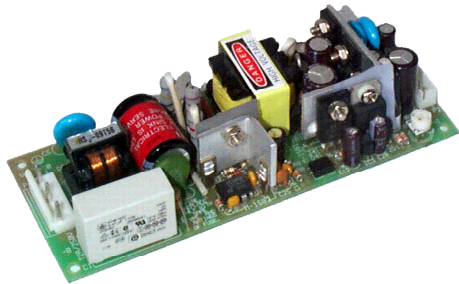


## UNIVERSAL INPUT AC TO DC PCB OPEN-FRAME TRIPLE OUTPUT SWITCHING POWER SUPPLIES 17-18 WATT APS17VI SERIES



- ◆ ACCOMODATES UNIVERSAL AC SOURCES IN THE WORLD
- ◆ SMALL, COMPACT PCB OPEN-FRAME FORMAT
- ◆ DESIGNED TO MEET UNIVERSAL SAFETY STANDARDS
- ◆ EMI/RFI MEETS CISPR PUB. 22 CLASS B
- ◆ CE MARKING COMPLIANCE

### SPECIFICATIONS

#### INPUT SPECIFICATIONS:

**Input Voltage:** Typical 85-264VAC  
**Input Connector:** Molex 5273/JST B3P5-VH  
**Input Frequency:** 47-63Hz  
(Consult factory for 440Hz operation)  
**Inrush Current:** Max.25A@110VAC, 50A@230VAC  
**Input Current:** 0.6A@115VAC, 0.2A@230VAC  
**Dielectric Withstand:** Meet IEC950  
3,000VAC Output/Input  
1,500VAC Input/GND  
500VAC Output/GND  
**EMI/RFI:** Meet CISPR PUB.22 Class B  
& FCC Class B  
**Hold-up Time:** 20mS@110VAC, 100mS@230VAC  
**Earth Leakage:** Less than 0.3mA @ 230VAC

#### OUTPUTS SPECIFICATIONS:

**Output Voltage:** See RATINGS CHARTS  
**Output Currents:** See RATINGS CHARTS  
**Output Wattage:** Typ.17-18 Watts  
**Output Connector:**  
Molex 5267-NA or JST B8B-XH-A  
**Line Regulation:** 0.1% typical  
**Load Regulation:**  
Main O/P VO1: Typical 1.0%  
Aux. O/P VO2 & VO3: Typical 1.5%  
**Noise & Ripple:** VO1 typ.1% peak to peak  
VO2 & VO3 typical 1% peak to peak  
**OVP:** VO1 MAIN O/P only; @ +6.2V 0.4V  
**Adj.:** VO1 MAIN O/P only; -10% to OVP  
**Overload Protection:** 125-150% max. power

#### GENERAL SPECIFICATIONS:

**Efficiency:** Typical 70%  
**Switching Frequency:** Fixed-freq.at 38K Hz  
**Circuit Topology:** Fixed-frequency flyback  
**Transient Response:**Output voltage returns in less than 3mS following a 50% load change.

**Operating Temperature:** 0-50°C  
**Storage Temperature:** -20°C to +85°C  
**Temperature Coefficient:** 0.04% per °C  
**Cooling:** Free air convection.  
**Safety Standard:** UL1950/EN60950 Class I



## OUTPUT VOLTAGE/CURRENT RATING CHARTS

MODEL NO.:	MAIN VO1 O/P @ ★◆			AUX. VO2 O/P ●			AUX. VO3 O/P ●		
	Typ. Amp	Volt	Peak Amp	Typ. Amp	Volt	Peak Amp	Typ. Amp	Volt	Peak Amp
APS17VI-30	2.2A	+5V	3.0A	0.3A	+12V	0.6A	0.2A	-12V	0.3A
APS17VI-31	2.2A	+5V	3.0A	0.3A	+12V	0.6A	0.2A	-5V	0.3A
APS17VI-33	2.2A	+5V	3.0A	0.3A	+15V	0.6A	0.2A	-15V	0.3A

**Symbols:** "★" OVP built-in. "@" Adjustable. "◆" Floating(or isolated) output. "●" Installed with Post Regulator(PR)

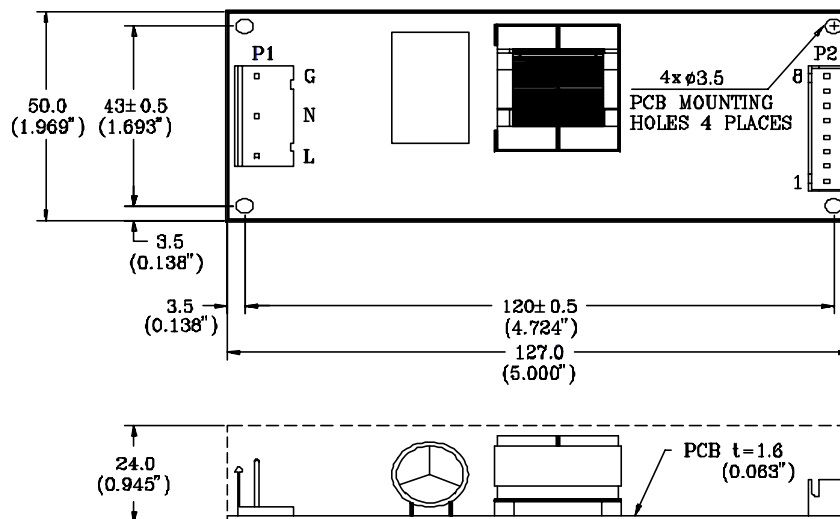
**Remark:** (1) At least 20% of typical main output current is required to maintain stated regulation.

(2) Peak output, less than 60 sec. Peak current can't be drawn from all output at the same time.

**MECHANICAL DIMENSIONS:**MM(INCHES)

**WEIGHT:**150 g (5.3 Oz)

**POWER DENSITY:**1.83 W/Cubic Inch



## INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

### INPUT CONNECTOR P1

PIN NO. ASSIGNMENT	
P1-L	AC-LINE
P1-N	AC-NEUTRAL
P1-G	AC-GROUND

**Mating connector:**

Molex 5196/JST VHR-5N or equivalent.

### OUTPUT CONNECTOR P2

PIN NO. ASSIGNMENT	
P2-1	+VO1
P2-2	+VO1
P2-3	-VO1
P2-4	-VO1
P2-5	+VO2
P2-6	DC COM.
P2-7	DC COM.
P2-8	-VO3

**Mating Connector:**

Molex 5264-N/JST XHP-8 or equivalent.