

UNIVERSAL INPUT AC TO DC PCB OPEN FRAME SINGLE & DUAL OUTPUT INTERNAL SWITCHING POWER SUPPLIES 10 WATT APS10VI SERIES



FEATURES:

- ACCOMMODATES UNIVERSAL AC SOURCES IN THE WORLD
- COMPACT PCB OPEN FRAME FORMAT
- DESIGNED TO MEET UNIVERSAL SAFETY STANDARDS
- UL/CSA/TUV APPROVALS
- EMI/RFI MEET CISPR PUB.22 CLASS B & FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATIONS

INPUT SPECIFICATIONS:

Input Voltage: Typical 85-264VAC
Input Connector: Molex 5273(vertical)
Input Frequency: 47-63Hz
(Consult factory for 440Hz.operation)
Inrush Current: 20A peak @ 264VAC
Input Current: 0.3A@115VAC, 0.15A@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: Typical 10 Watts
Line Regulation: 0.1% typical
Load Regulation:
Main O/P VO1: Typ. 1.0%
Aux. O/P VO2: Typical 1.5%
Noise & Ripple:
VO1 typical 1% peak to peak
VO2 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: 40-150 KHz
Circuit Topology: Free-running flyback circuit.
Transient Response: Output voltage returns in less than 3mS following a 50% load change.

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



VOLTAGE/CURRENT RATING CHARTS OUTPUT

SINGLE OUTPUT

MODEL NO.	MAIN VO1 O/P @ ★	TYP.A VOLT. PEAK A
APS10VI-10	2.0A 5V 3.0A	
APS10VI-11	1.0A 12V 1.5A	
APS10VI-12	0.7A 15V 1.2A	
APS10VI-13	0.5A 24V 0.75A	

DUAL OUTPUT

MODEL. NO.	MAIN VO1 O/P @ ★◆	AUX. VO2 ●◆	TYP.A VOLT. PEAK A	TYP.A VOLT. PEAK A
APS10VI-20	1.7A 5V 2.5A	0.3A 5V 0.5A		
APS10VI-21	1.0A 5V 2.0A	0.5A 12V 0.5A		
APS10VI-22	1.0A 5V 2.0A	0.4A 15V 0.5A		
APS10VI-23	1.0A 5V 2.0A	0.2A 24V 0.3A		

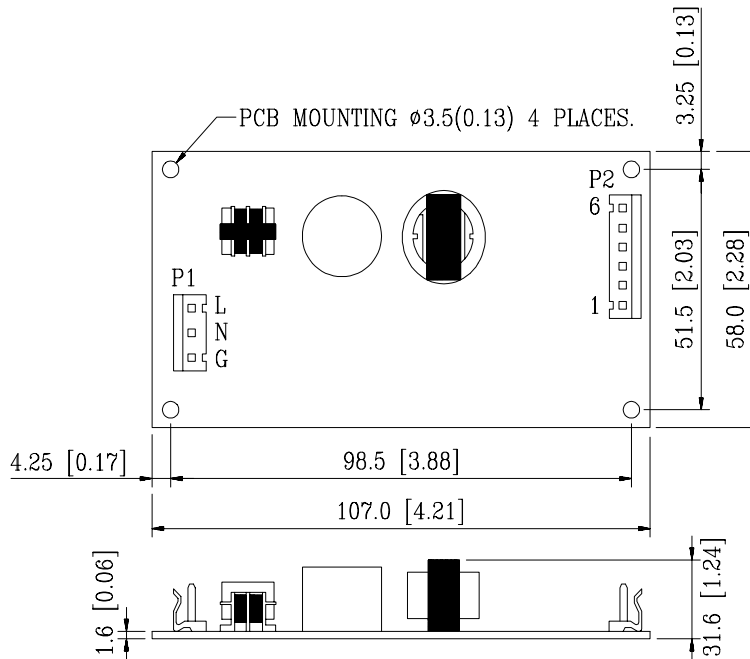
Symbols: "★" OVP built-in, "@" Adjustable. "◆" Floating (or isolated) output. "●" Installed with Post Regulator.

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:** 158 g (5.57 Oz.)

POWER DENSITY: 0.89W/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 or equivalent.

OUTPUT CONNECTOR P2

PIN NO.	ASSIGNMENT
P2-1,2	VO1 -
P2-3,4	VO1 +
P2-5	VO2 -
P2-6	VO2 +

Mating connector:
Molex 5196 or equivalent.