

UNIVERSAL INPUT AC TO DC PCB OPEN FRAME SINGLE OUTPUT INTERNAL SWITCHING POWER SUPPLIES 12 WATT APS12VI SERIES



FEATURES:

- ACCOMMODATES UNIVERSAL AC SOURCES IN THE WORLD
- EXTRA LOW & 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: Typ.85-264VAC
Input Connector: Molex 5045-NA or JST B3B-XH-A
Input Frequency: 47-63Hz
(Consult factory for 440Hz.operation)
Inrush Current: 20A @ 264VAC
Input Current: 0.13A-0.33A
Dielectric Withstand: Meet IEC950
3,000VAC-Output/Input
1,500VAC-Input/GND
500VAC-Output/GND
EMI/RFI: Meet CISPR PUB.22 Class B
Hold-up Time: 10mS@110VAC, 40mS@230VAC
Earth Leakage: Less than 0.3mA @ 230VAC

OUTPUTS SPECIFICATIONS:

Output Voltage: See RATINGS CHARTS
Output Currents: See RATINGS CHARTS
Output Wattage: Typical 10-12 Watts
Output Connector: Molex 5045-NA or JST B8B-XH-A
Line Regulation: 0.1% typical
Load Regulation:
Main O/P VO1: Typ. 1.0%
Noise & Ripple: VO1 typ.1% peak to peak
OVP: Zener diode OVP built-in
Adj.: VO1 MAIN O/P only,-10 to OVP
Overload Protection: 120-150% max. power

GENERAL SPECIFICATIONS:

Efficiency: Typ. 74%
Switching Frequency:45KHz
Circuit Topology: Fixed frequency flyback circuit
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



MODEL NO.DESRIPTION: APS12VI - X X X YY

Remark: Please specify the V/A ratings and consult factory for model no.

OUTPUT CURRENT
OUTPUT VOLTAGE
SERIES NAME APS12VI

OUTPUT VOLTAGE/CURRENT RATING CHARTS

SINGLE OUTPUT

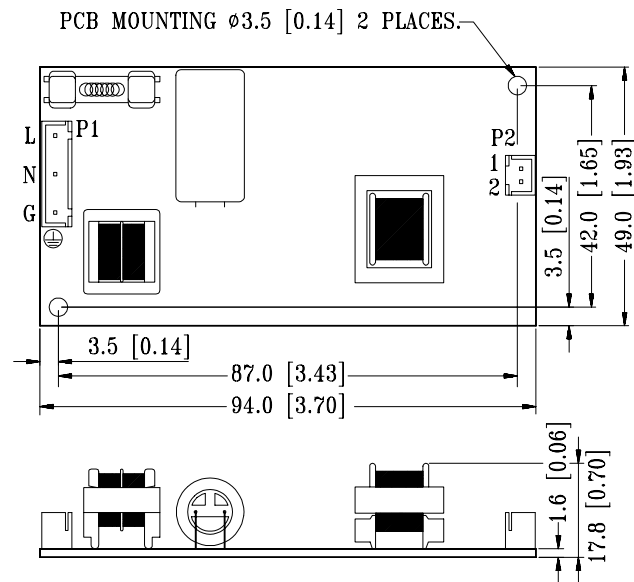
MODEL NO.	OUTPUT VOLTAGE (VDC) @ ★	OUTPUT AMP
APS12VI-03025	3.0	0.1A-2.5
APS12VI-05020	5.0	0.1A-2.0
APS12VI-12010	12.0	0.1A-1.0
APS12VI-15008	15.0	0.1A-0.8
APS12VI-24005	24.0	0.1A-0.5

Symbols: "★" OVP built-in. "@"Adjustable

MECHANICAL DIMENSIONS: MM (INCHES)

WEIGHT: 54G (1.9 Oz)

POWER DENSITY 2.4W / 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

OUTPUT CONNECTOR P2

PIN NO.	ASSIGNMENT
P2-1	+VO1
P2-2	-VO1

Mating :Molex 5051-N/ J ST XHP-8 or equivalent.

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